

Technical manual

FCZI U



FCZI P



FCZI D



FCZI ACT



FCZI

U-UF-AS-AF-ACT P D-DT-DS

230V ~ 50Hz

Dear Customer,

Thank you for choosing an AERMEC product. This product is the result of many years of experience and in-depth engineering research, and it is built using top quality materials and advanced technologies.

In addition, the CE mark guarantees that our appliances fully comply with the requirements of the European Machinery Directive in terms of safety.







We constantly monitor the quality level, and as a result AERMEC products are synonymous with Safety, Quality, and Reliability.

Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.

Thank you again.

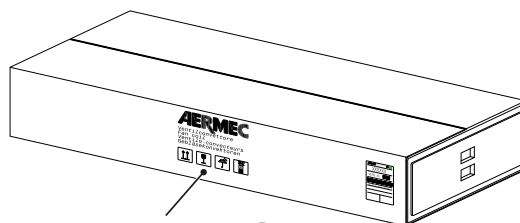
AERMEC S.p.A

TRASPORTO • TRANSPORT • TRANSPORT • TRANSPORT • TRANSPORTE

	NON bagnare. Tenere al riparo dalla pioggia.	KEEP DRY. Keep out of the rain.	NE PAS mouiller. Tenir à l'abri de la pluie.	NICHT nass machen. Vor Regen geschützt anbringen	NO mojar. Conservar protegido de la lluvia.
	NON calpestare.	DO NOT step on unit.	NE PAS marcher sur l'appareil.	NICHT betreten .	NO pisar.
	Sovrapponibilità: controllare sull'imballo per conoscere il numero di macchine impilabili.	Stackability: check the package to know the number of stackable machines.	Empilement : vérifier sur l'emballage le nombre d'appareils empilables.	Stapelbarkeit: Auf der Verpackung nachsehen, wie die Anzahl der stapelbaren Geräte lautet.	Superponibilidad: observar en el embalaje la cantidad de máquinas que pueden apilarse.
	NON trasportare la macchina da soli se il suo peso supera i 25Kg.	DO NOT carry the equipment alone if weight exceeds 25Kg.	NE PAS faire transporter l'appareil par une seule personne si son poids est supérieur à 25kg.	NICHT das Gerät allein transportieren, wenn sein Gewicht die 25kg übersteigt.	NO transportar la máquina solos si su peso es superior a los 25Kg.
	NON lasciare gli imballi sciolti durante il trasporto. Non rovesciare.	DO NOT leave boxes unsecured during transportation. Do not overturn.	NE PAS laisser les emballages sans attaches durant le transport. Ne pas renverser.	NICHT die Verpackungen während des Transports geöffnet lassen. Nicht stürzen.	NO dejar los embalajes sin sujetar durante el transporte. No invertir.
	Fragile, maneggiare con cura.	Fragile, handle with care.	Fragile, manipuler avec soin.	Zerbrechlich, sorgfältig handhaben.	Frágil, manipular con cuidado.

SIMBOLI DI SICUREZZA • SAFETY SYMBOL • SIMBOLES DE SECURITE • SICHERHEITSSYMBOLS • SÍMBOLOS DE SEGURIDAD

	Pericolo: Tensione	Danger: Power supply	Danger: Tension	Gefahr ! Spannung	Peligro: Tensión
	Pericolo: Organi in movimento	Danger: Movings parts	Danger: Organes en mouvement	Gefahr ! Rotierende Teile	Peligro: Elementos en movimiento
	Pericolo!!!	Danger!!!	Danger!!!	Gefahr!!!	Peligro!!!
	Imballo: indicazioni per trasporto e stoccaggio	Packing: indications for transport and storage	Emballage: indications pour le transport et le stockage	Verpackung: Anweisungen für Transport und Lagerung	Embalaje: indicaciones para el transporte y el almacenamiento



AERMEC

Ventilconvettore
Fan coil
Ventilconvecteurs
Gebläsekonvektoren



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3. DESCRIPTION OF THE UNIT

The FCZI series units are fan coil terminals to treat air indoors, both during winter and summer.

The FCZI fan coil combines high technological and functional features that make it ideal to heat and cool all environments. The supply of heated or cooled air is immediate and distributed throughout the room.

FCZI generates heat if included in a heating system with boiler or heat pump. However, it may also be used in the summer as an air conditioner, if the heating system has a water chiller.

The fan coil unit is designed to achieve maximum compliance with the rules accident prevention. The inverter motor allows the user to adapt to the real demands of the internal environment without temperature fluctuations.

The basin and the augers of the inspected fans allow you to perform a thorough cleaning of the internal parts also.

a particularly quiet centrifugal fan assembly.

Water connections reversibility during installation

The **FCZI** fan coil has been designed to meet every system requirement, thanks also to the accessories supplied.

In particular, the fact that the unit can be integrated in the **VMF** system gives you control over the individual fan coil with accessories up to the management of the fan coil inserted in complex networks.

VMF (VARIABLE MULTIFLOW)

VMF (Variable Multi Flow) is the system able to intelligently manage a complete hydronic system, then composed of a cold/heat pump, a boiler and a network of fan coils (multi-speed or continuous speed modulation) arranged in zones are divided (up to 64), the circulation pumps (up to 12) and the heat recovery with the air quality sensor (up to 3), performance optimizations in air conditioning and heating ensure comfort and energy savings.



VMF

2. FEATURES

Drawing from its wide experience in the field of fan coils, Aermec presents the new FCZI series, where the elegant design goes hand in hand with cutting-edge performance in terms of low noise and energy savings.

They can be installed on any system with 2/4 pipes and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

Versions without installed controller,

Vertical or horizontal installation:

FCZI_U

FCZ_UF

Vertical installation:

FCZI_AS

FCZ_AF

With installed controller,

Vertical installation:

FCZI_DT

FCZI_D

FCZI_ACT

Versions without control in built,

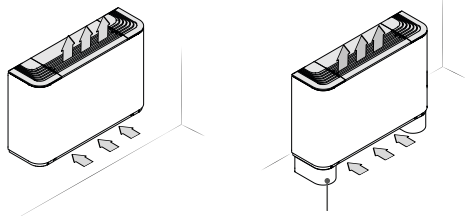
Vertical or horizontal installation:

FCZI_P

- Coat RAL9003, RAL 7047 Head
- Brushless motor continuously variable 0-100% of the speed, to ensure the best performance with very low sound level
- Metallic protective cabinet with rustproof polyester paint
- Adjustable air delivery grill with the fan coil switched off by closing the air distribution grid, for U versions
- Low pressure drop across heat exchangers
- Easy installation and maintenance
- Air filter class Coarse 25% for all versions easy to pull out and clean. In the APC version, air purification is guaranteed by the Cold Plasma purifier.
- Water connections reversibility during installation

4. DESCRIPTION OF VERSIONS

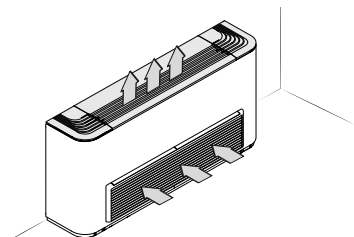
With fixed grille (vertical free-standing) - A



- **FCZ_AS**
Without installed controller
- Compatible with VMF system
- **FCZ_ACT**
- With electronic controller (for 2 pipe systems)

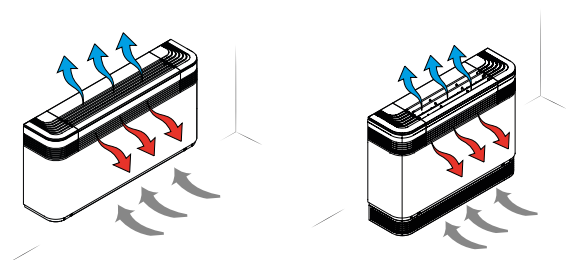
Vertical installation only

- For 2/4 pipe systems



- **FCZI_AF**
- Without installed controller
- Compatible with VMF system
- Front intake

With double flow (Dualjet) - D



Dualjet, unique to Aermec, offers notably improved seasonal comfort by directing the air flow according to the season. In winter warm air is directed towards the floor; in summer cool air is directed towards the ceiling.

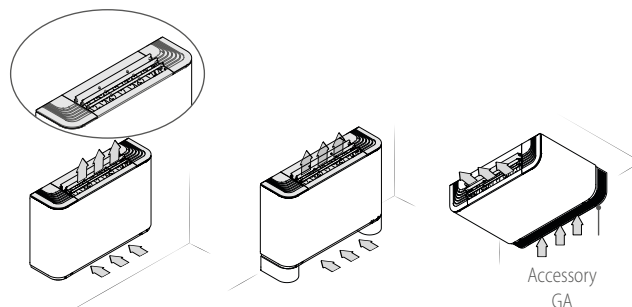
- **FCZI_D** With installed controller
- **FCZI_DT** With installed controller T-Touch
- **FCZI_DS**: Version without control on the machine, it is mandatory to use a thermostat to manage the change over on the air side through the microswitch, it is recommended to use Aermec thermostats (TX-AER503IR-VMF-E19I)
FCZ_D units are compatible with the VMF system, in this case you will need to contact the headquarter
- You can change the air supply orientation, frontal or from above, by acting directly on the adjustable grid.

Only vertical installation

- For 2 pipe system (4 pipe system with VCF_X4 , VMF system or FCZI_DT)

With adjustable/fixed grille (Universal) - U

With adjustable air distribution grille - U

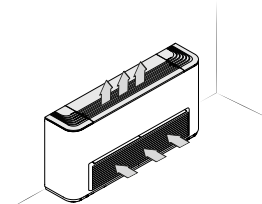


- **FCZI_U**
- Without installed controller
- Compatible with VMF system
- Adjustable air distribution grille
Single for size 2-3
Three independent for sizes 4-5-7

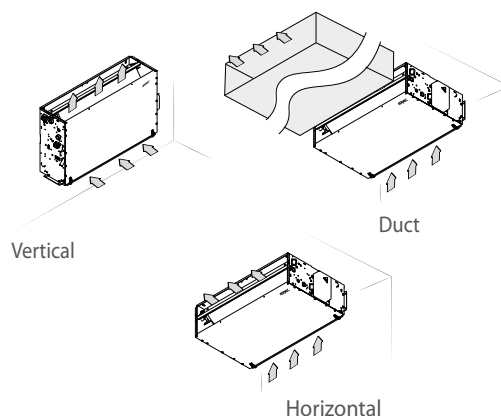
With the flap completely closed the unit is off

Vertical or horizontal installation

- For 2/4 pipe systems



- **FCZI_UF**
- Without installed controller
- Compatible with VMF system
- Adjustable grille front intake louver



- **FCZI_P**
- wall/ceiling mounted without cabinet

Vertical or horizontal installation

- For 2/4 pipe system

* In the standard configuration it is not static pressure available. Should it be necessary for ducted installations, we must act on the dip switch on the motor. For further concerning refer to the technical documentation.

5. CONFIGURATOR

By appropriately combining the variety of options available, every model can be configured in order to meet all specific system requirements.

Field Code

1,2,3,4 FCZI

5 Size

2-3-4-5-7-9

6 Main coil

0 Standard

5 Oversized (1)

7 Supplementary coil

0 Without coil

1 Standard

2 Oversized

8,9,10 Versions

D Dualjet with installed controller

DT With installed controller T-Touch

DS Dualjet without on-board control

AS Free standing without installed switch

AF Free standing without switch Front intake louver

ACT Free standing with electronic controller

U Universal with adjustable grille, without installed controller

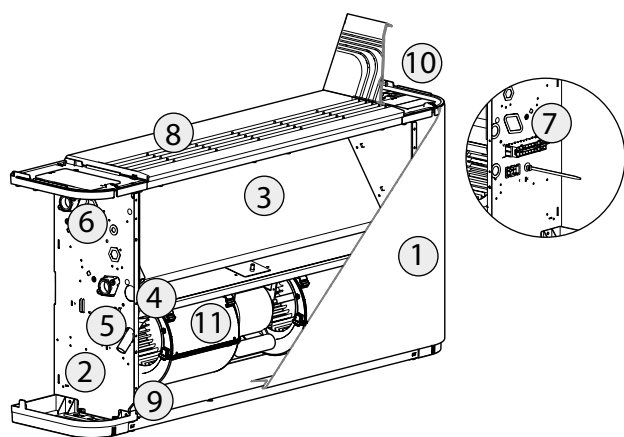
UF Universal with adjustable grille, without installed controller front intake louver

P Wall/ceiling mounted without cabinet

PR Wall/ceiling mounted without cabinet and hydraulic connections to the right

(1) Oversized coil "5" does not allow the installation of the supplementary coil "1 or 2"

6. MAIN COMPONENTS



- 1- Mobile di copertura (RAL 9003)
- 2- Struttura Portante
- 3- Batteria di scambio termico
- 4 - Bacinella Raccolta Condensa
- 5 - Scarico Condensa
- 6 - Collegamenti Idraulici
- 7 - Collegamenti Elettrici
- 8 - Griglia di mandata (RAL7047)
- 9 - Sezione Filtrante
- 10 - Alloggio del pannello comandi
- 11 - Gruppo Ventilazione

CABINET

RAL9003 color cloak

Outlet grilles RAL7047 color

The casing is made of galvanized steel and polyester powder coated to ensure high resistance to rust and corrosion.

Clogs (accessory), for units with housing, are made of plastic material RAL9003 color.

BEARING STRUCTURE

It is made of galvanized sheet steel of adequate thickness. In the rear part has the holes for fixing to the wall of the appliance. For models without cabinet is provided, mounted on the front cover panel of the fan assembly. Clogs (accessory), for ducted units are made of galvanized sheet steel.

HEAT EXCHANGER

Coil with copper tube and aluminum fins blocked by mechanical expansion of the tubes. The manifolds are equipped with female fittings and, of air vents in the upper part of the battery vents and water in the bottom of the battery

2 pipe systems:

- Standard main battery (reversible on site).
- Increased the main battery (reversible on site).

4 pipe systems:

- With standard main battery coupled to accessories VCZ_X4R valve series. (Reversible on site VCZ_X4L).
- Main increased battery coupled to accessories valve series VCZ_X4R. (Reversible on site VCZ_X4L).
- With standard main battery coupled to battery accessory BV. (Reversible on site).
- With secondary battery does not reversible in caqntiere but with right connections (to be specified when ordering)

BOWLS CONDENSATION

The fan coil only allow vertical installation, they are equipped with a condensate drain pan.

The fan coils that also allow horizontal installation are provided with a second basin.

All condensate collection basins are thermally insulated and have the dual exhaust to the right and to the left.

Unloading unused must be sealed.

CONDENSATE DRAIN

Each fan coil, installed to operate in the cooling mode, must be connected to a suitably sized exhaust system condensation with an appropriate slope to allow the flow of water.

HYDRAULIC CONNECTIONS

Water connections, usually positioned in the left side, are with couplings.

Water connections must always be positioned on the opposite side to the electrical connections.

It has the option to rotate the battery in the pipeline (reversible battery), excluding versions with dual circuit battery (NOT reversible) which must be ordered by indicating the side of the attack.

ELECTRICAL CONNECTIONS

On the opposite side to the side of the water connections, usually is a terminal block for connection to the electricity grid.

The fan must always be connected to a grounding wire.

SUPPLY GRID

Made of plastic material RAL7047 color and can be fixed fins or movable depending on the model chosen.

For fan convectors with the delivery grille with adjustable blades, pay attention to the connection with the micro-switch on the command opening levers.

With the flaps closed the ventilation is inhibited.

FILTER SECTION

Air filter class Coarse 25% for all versions easy to pull out and clean.

In the APC version, air purification is guaranteed by the Cold Plasma purifier.

CONTROL PANEL

The command panel, in versions which provide for the installation on board, is housed in the cylinder head of the fan coil, under the right cover and can be protected from tampering, by locking with a screw of the cover flap.

In versions which provide the control panel as an accessory, it can be installed on the fan coil or wall.

In the hanging version the control panel (accessory) can only be installed on the wall.

The fan coils AERMEC in versions without control panel can be integrated in the VMF System.

To see the choice of control panels features in the chapter "Accessories."

FAN UNIT

It consists of double inlet centrifugal fans with blades developed in length to obtain high flow rate with low number of revolutions.

The electric motor "brushless with Hall probes" used in fan coil modulating FCZI AERMEC presents enormous advantages compared to conventional AC motors, and hybrid motors and inverters (no Hall sensor) normally used on other fan coils modulating:

- Low wear
- Ability to adjust in a precise and continuous rotation speed (0-100%)
- Increased energy efficiency
- Greater durability and reliability
- Low magnetic noise
- Continuous control of the rotor position, this implies increased efficiency and guaranteed inspired and controlled
- Guaranteed minimum speed 90 rpm (for thermodynamic reasons this limit has been increased to 200 rpm).

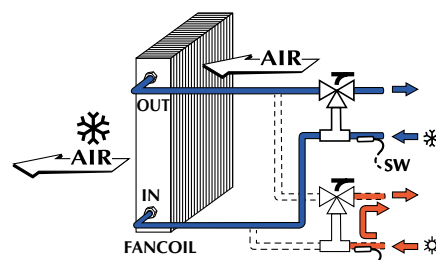
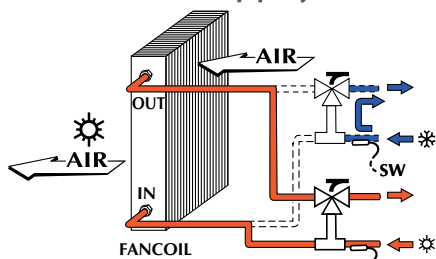
7. EXAMPLES OF SYSTEM CONFIGURATIONS WITH FCZ

Key:

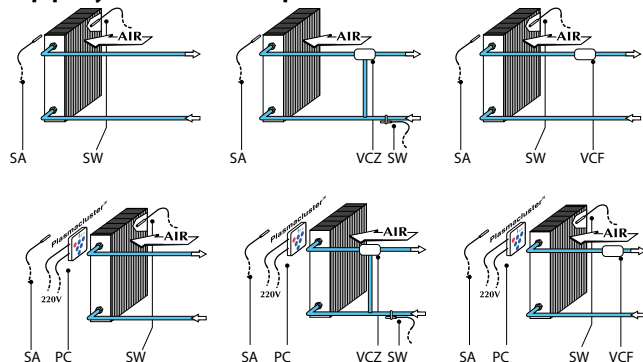
SW Water temperature probe
VCF Solenoid valve (Heating/ Cooling)
VC Solenoid valve (Heating),
VF Solenoid valve (Cooling)

SA Ambient temperature probe
V3,V2,V1 Maximum, Medium, Minimum speed of the fan
RX Heater

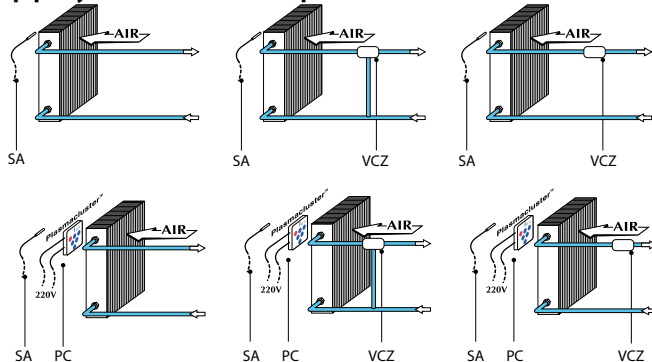
4-pipe system with standard coil and VCF_X4 valve



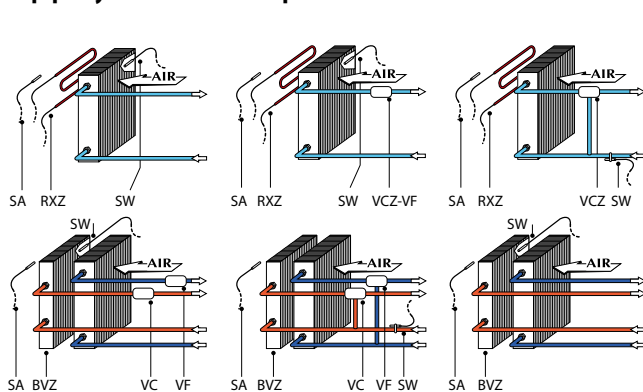
2-pipe system with water probe



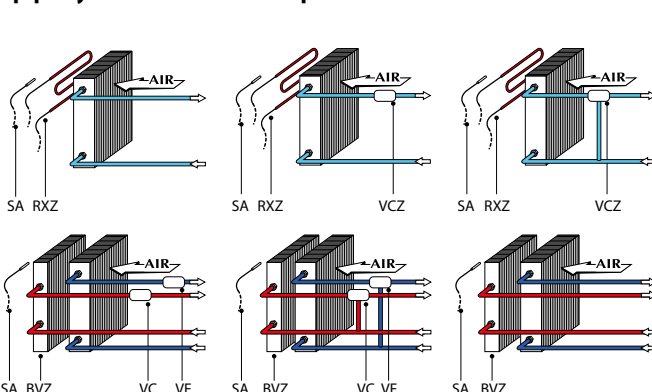
2-pipe system without water probe



4-pipe system with water probe



4-pipe system without water probe



OPERATING ENVIRONMENT

The units are designed for installation in closed environments in conditions of 'urban', non-marine atmosphere with non-corrosive and non-dusty characteristics. Under no circumstances the following concentrations of pollutants in the air, in which the unit must operate, shall be exceeded:

SO ₂	<0,02 ppm
H ₂ S	<0,02 ppm
NO,NO ₂	<1 ppm
NH ₃	<6 ppm
N ₂ O	<0,25 ppm

The unit should not be installed in locations characterized by the presence of flammable gases or acidic or alkaline substances. Otherwise the coils and the internal components of the equipment could suffer serious and irreparable damage from corrosion.

WARNINGS FOR THE QUALITY OF THE WATER CIRCULATING IN THE COILS

It is recommended to perform an analysis of the water circulating in the coil focusing on the research of the possible presence of bacteria (detection of iron bacteria and micro-organisms that can produce H₂S or chemically reduce sulphates) and on the chemical composition of the water, to prevent corrosion and fouling inside the tubes. The water circuit must be supplied and replenished with treated water that does not exceed the threshold levels indicated below.

Total hardness in mmol/l	I < mmol/l < 1,5
Chlorides [CL ⁻]	< 10 mg/litre
Sulphates [SO ₄ ²⁻]	< 30 mg/litre
Nitrates [NO ₃ ⁻]	= 0 mg/litre
Dissolved iron	< 0,5 mg/litre
Dissolved oxygen	4 < [O ₂] < 9 mg/litre
Carbon dioxide [CO ₂]	< 30 mg/litre
Resistivity	20 Ohm-m < Resistivity < 50 Ohm-m
pH	6,9 < pH < 8

BATTERY WATER CONTENT

Model	FCZI	200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	950
Main coil water content	[L]	0,5	0,5	0,5	0,7	0,8	0,8	0,8	1,0	1,0	1,0	1,0	1,4	1,0	1,0	1,0	1,4	1,2	1,2	1,2	1,6	1,8	1,8	2,3
Water content of the secondary coil	[L]	-	0,2	0,3	-	-	0,3	0,4	-	-	0,3	0,5	-	-	0,3	0,5	-	-	0,4	0,7	-	-	0,7	0,7

8. SIZES AVAILABLE FOR VERSION

Versioni	Size available main coil only (2 pipes)											
FCZI	200	250	300	350	400	450	500	550	700	750	900	950
AS	•	•	•	•	•	•	•	•	•	•	•	•
AF	•	•	•	•	•	•	•	•	/	/	•	•
ACT	•	•	•	•	•	•	•	•	•	•	•	•
U	•	•	•	•	•	•	•	•	•	•	•	•
UF	•	•	•	•	•	•	•	•	/	/	•	•
D	•	/	•	/	•	/	•	/	/	/	/	/
DT	•	/	•	/	•	/	•	/	/	/	/	/
DS	•	/	•	/	•	/	•	/	/	/	/	/

Versioni	Size available main and supplementary coil (4 pipes)										
FCZI	201	202	301	302	401	402	501	502	701	702	901
AS	•	•	•	•	•	•	•	•	•	•	•
ACT	•	•	•	•	•	•	•	•	•	•	•
U	•	•	•	•	•	•	•	•	•	•	•
D	/	/	/	/	/	/	/	/	/	/	/
DT	/	/	/	/	/	/	/	/	/	/	/
DS	/	/	/	/	/	/	/	/	/	/	/

Version	Size available with main coil only (2 pipes)											
FCZI	200	250	300	350	400	450	500	550	700	750	900	950
P	•	•	•	•	•	•	•	•	•	•	•	•

Version	Size available with main and supplementary coil (4 pipes)										
FCZI	201	202	301	302	401	402	501	502	701	702	901
P	•	•	•	•	•	•	•	•	•	•	•

FCZI	ALL SIZE
Maximum inlet water temperature (Tw) 80 °C	80°C
Maximum inlet water temperature recommended (Tw) 65 °C	65°C
Maximum operating pressure of 800 kPa (8 bar)	800 kPa (8 bar)
Minimum operating pressure 100 kPa (1 bar)	100 kPa (1 bar)
the ambient temperatures (Ta) 0 °C < Ta < 45 °C	0°C < Ta < 45°C
Relative humidity limits in the environment (R.H.) R.H. < 85%	U.R. < 85%
Power supply	110/240V~50/60Hz

9. OPERATING LIMITS

Main Standard Battery						
FCZI		200	300	400	500	900
Minimum water flow (Qw)	l/h	100	100	150	150	300
Maximum water flow rate (Qw)	l/h	750	750	1100	1100	2200

Main battery Stronger					
FCZI		250	350	450	750
Minimum water flow (Qw)	l/h	150	150	150	300
Maximum water flow rate (Qw)	l/h	1100	1100	1100	2200

Hot Battery Standard						
FCZI		201	301	401	501	901
Minimum water flow (Qw)	l/h	50	50	50	100	100
Maximum water flow rate (Qw)	l/h	400	400	400	400	900

Heating coil Stronger					
FCZI		202	302	402	702
Minimum water flow (Qw)	l/h	50	50	50	150
Maximum water flow rate (Qw)	l/h	700	700	700	1200

Type tests carried out at atmospheric pressure at minimum selectable speed.

WATER TEMPERATURE

In order to prevent air stratification in the environment and thus have a better mixture, the fan coil should not be supplied with water that is hotter than 65°C.

Using water at a very high temperature can cause creaking due to the heat expansion of the elements (plastic and metal), however, this does not cause damage to the unit unless the maximum operating temperature is exceeded.

MINIMUM AVERAGE WATER TEMPERATURE

If the fan coil runs continuously in cooling mode in an environment with high relative humidity, condensate may form on the air flow.

This condensate could drip onto the floor and onto any underlying objects. To prevent condensation phenomena on the external structure of the appliance with the fan running, the average water temperature must not drop below the limits indicated in the table. These limits depend on the temperature and humidity conditions of the room air.

These limits refer to operation with the fan running at minimum speed. Condensation may form in the event the fan is off for a prolonged period and cold water flows in the coil; therefore, we recommend installing the 3-way valve (accessory).

Room temperature wet bulb (Ta) °C	Dry bulb temperature of the ambient air (Ta) °C					
	21	23	25	27	29	31
15	3	3	3	3	3	3
17	3	3	3	3	3	3
19	3	3	3	3	3	3
21	6	5	4	3	3	3
23	-	8	7	6	5	5
Minimum average water temperature (Tw) °C						

10. TECHNICAL DATA

PERFORMANCE SPECIFICATIONS

Technical data - 2-pipe systems (main coil)

2-pipe

	FCZI200			FCZI250			FCZI300			FCZI350			FCZI400			FCZI450			FCZI500			FCZI550		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	2,20	3,18	4,05	3,47	4,46	5,50	3,77	4,92	6,15	4,32	5,74	7,15	4,57	6,29	7,82	5,27	7,31	8,50	5,82	8,34	9,75
Water flow rate system side	l/h	177	258	324	193	278	355	304	391	482	330	431	539	379	503	627	400	551	685	462	641	745	510	731	855
Pressure drop system side	kPa	6	12	18	7	15	23	7	12	18	8	14	20	9	16	24	6	11	16	12	21	28	10	20	26

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,09	1,58	2,01	1,72	2,21	2,73	1,87	2,44	3,06	2,14	2,85	3,55	2,27	3,12	3,88	2,62	3,63	4,22	2,89	4,14	4,85
Water flow rate system side	l/h	174	254	319	190	274	350	299	385	475	325	425	531	373	495	617	394	543	675	455	631	734	502	720	842
Pressure drop system side	kPa	6	12	18	8	15	22	8	12	18	9	14	21	10	16	24	6	11	16	12	21	28	10	20	26

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	0,89	1,28	1,60	1,06	1,55	1,94	1,68	2,17	2,65	1,89	2,46	3,02	2,20	2,92	3,60	2,41	3,21	4,03	2,68	3,69	4,25	2,91	4,13	4,79
Sensible cooling capacity	kW	0,71	1,05	1,33	0,79	1,20	1,52	1,26	1,65	2,04	1,33	1,76	2,18	1,59	2,14	2,67	1,69	2,30	2,90	1,94	2,73	3,18	2,07	2,98	3,49
Water flow rate system side	l/h	153	221	275	182	267	334	288	374	456	350	460	560	379	503	619	414	552	694	460	634	731	501	711	824
Pressure drop system side	kPa	6	12	18	8	17	25	8	13	18	11	18	25	10	17	24	9	15	22	13	23	29	12	22	28

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1			1			2			2			2			2			2			2		
Air flow rate	m³/h	140	220	290	140	220	290	260	350	450	260	350	450	330	460	600	330	460	600	400	600	720	400	600	720
Input power	W	5	8	14	5	8	14	5	7	13	5	7	13	5	10	18	5	10	18	7	18	34	7	18	38
Signal 0-10V	%	44	68	90	44	68	90	52	70	90	52	70	90	49	68	90	49	68	90	50	74	90	50	74	90

Fan coil sound data (4)

Sound power level	dB(A)	35,0	46,0	51,0	35,0	46,0	51,0	34,0	41,0	48,0	34,0	41,0	48,0	37,0	44,0	51,0	37,0	44,0	51,0	42,0	51,0	56,0	42,0	51,0	56,0
Sound pressure	dB(A)	27,0	38,0	43,0	27,0	38,0	43,0	26,0	33,0	40,0	26,0	33,0	40,0	29,0	36,0	43,0	29,0	36,0	43,0	34,0	43,0	48,0	34,0	43,0	48,0

Diametre hydraulic fittings

Main coil	Ø	1/2"			1/2"			3/4"			3/4"			3/4"			3/4"			3/4"			3/4"		
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Power supply

Power supply	230V~50Hz																								
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	FCZI700			FCZI750			FCZI900			FCZI950		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	8,10	9,80	11,00	9,10	11,30	12,50	10,77	13,35	15,14	11,20	14,42	17,10
Water flow rate system side	l/h	710	860	964	798	991	1096	945	1171	1328	982	1264	1500
Pressure drop system side	kPa	17	23	29	10	15	18	12	17	22	16	25	33

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	4,03	4,87	5,47	4,50	5,60	6,20	5,35	6,64	7,53	5,57	7,17	8,50
Water flow rate system side	l/h	699	846	950	786	975	1079	930	1152	1307	967	1245	1476
Pressure drop system side	kPa	17	24	29	10	15	18	12	17	22	15	24	33

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	3,92	4,89	5,50	4,27	5,34	6,14	4,29	5,00	6,91	5,77	7,32	8,60
Sensible cooling capacity	kW	2,99	3,76	4,30	3,20	4,05	4,72	2,97	3,78	5,68	3,80	4,87	5,78
Water flow rate system side	l/h	675	841	946	734	918	1056	738	860	1189	992	1259	1479
Pressure drop system side	kPa	17	25	30	10	15	19	10	13	22	15	23	30

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	3			3			3			3		
Air flow rate	m³/h	700	930	1140	700	930	1140	700	930	1140	700	930	1140
Input power	W	30	40	80	30	40	80	30	40	80	30	40	80
Signal 0-10V	%	56	72	90	56	72	90	56	72	90	56	72	90

Fan coil sound data (4)

Sound power level	dB(A)	50,0	57,0	62,0	50,0	57,0	62,0	51,0	57,0	62,0	51,0	57,0	62,0
Sound pressure	dB(A)	42,0	49,0	54,0	42,0	49,0	54,0	43,0	49,0	54,0	43,0	49,0	54,0

Diametre hydraulic fittings

Main coil	Ø	3/4"										
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Power supply

Power supply	230V~50Hz											
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

Technical data - 4-pipe systems (main coil + secondary coil)

4-pipe

	FCZI201			FCZI301			FCZI401			FCZI501			FCZI701			FCZI901		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 65 °C / 55 °C (1)

Heating capacity	kW	1,02	1,35	1,60	1,80	2,18	2,56	2,21	2,65	3,12	2,59	3,34	3,73	3,66	4,29	4,94	4,73	5,63	5,72
Water flow rate system side	l/h	89	118	140	158	191	224	186	232	273	227	293	327	320	375	437	414	492	501
Pressure drop system side	kPa	5	8	11	17	23	31	5	7	9	6	9	11	11	15	19	9	12	12

Cooling performance 7 °C / 12 °C (2)

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25	3,92	4,89	5,50	4,29	5,00	6,91
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18	2,99	3,76	4,30	2,97	3,78	5,68
Water flow rate system side	l/h	153	221	275	289	374	456	379	503	619	461	635	731	675	841	946	738	860	1188
Pressure drop system side	kPa	7	13	18	8	13	18	14	24	34	13	23	29	17	25	30	10	15	10

Fan

Type	type	Centrifugal																	
Fan motor	type	Inverter																	
Number	no.	1			2			2			2			3			3		
Air flow rate	m³/h	140	220	290	260	350	450	330	460	600	400	600	720	700	930	1140	700	930	1140
Sound pressure level (10 m)	dB(A)	27,0	38,0	43,0	26,0	33,0	40,0	29,0	36,0	43,0	34,0	43,0	48,0	42,0	49,0	54,0	43,0	49,0	54,0
Sound power level (3)	dB(A)	35,0	46,0	51,0	34,0	41,0	48,0	37,0	44,0	51,0	42,0	51,0	56,0	50,0	57,0	62,0	51,0	57,0	62,0

Diametre hydraulic fittings

Type	type	-																	
Main coil	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		

Fan

Input power	W	7	8	14	5	7	13	5	10	18	7	16	31	30	40	80	30	40	80
Signal 0-10V	%	44	68	90	52	70	90	49	68	90	50	74	90	56	72	90	56	72	90

Power supply

Power supply	230V~50Hz																		
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(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

2-pipe

	FCZI200P			FCZI250P			FCZI300P			FCZI350P			FCZI400P			FCZI450P			FCZI500P			FCZI550P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,81	3,16	3,34	2,01	3,40	3,62	3,08	4,83	5,23	3,32	5,43	5,83	3,96	5,85	6,34	4,10	6,44	6,96	5,39	7,28	7,63	5,92	8,37	8,71
Water flow rate system side	l/h	156	272	287	173	292	311	265	415	450	285	467	502	341	503	545	353	554	599	464	626	656	509	720	749
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,90	1,57	1,66	1,00	1,69	1,80	1,53	2,40	2,60	1,65	2,70	2,90	1,97	2,91	3,15	2,04	3,20	3,46	2,68	3,62	3,79	2,94	4,16	4,33
Water flow rate system side	l/h	155	270	288	172	291	308	263	413	447	284	464	499	339	501	542	351	550	595	461	623	652	506	715	745
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	0,80	1,37	1,45	0,95	1,67	1,76	1,40	2,38	2,53	1,66	2,70	2,88	2,03	2,98	3,21	2,22	3,28	3,55	2,73	3,68	3,84	2,97	4,15	4,31
Sensible cooling capacity	kW	0,63	1,13	1,20	0,70	1,29	1,37	1,10	1,82	1,94	1,15	1,94	2,07	1,45	2,18	2,36	1,54	2,35	2,56	1,98	2,73	2,85	2,11	2,98	3,12
Water flow rate system side	l/h	138	236	249	163	287	303	241	409	435	285	464	495	349	512	552	382	564	610	469	633	660	511	714	741
Pressure drop system side	kPa	5	13	16	8	17	19	7	14	16	9	17	19	9	17	19	8	12	13	13	22	23	12	20	21

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1		1		2		2		2		2		2		2		2		2		2		2	
Air flow rate	m³/h	123	240	257	123	240	257	225	390	424	225	390	424	300	470	515	300	470	515	410	600	630	410	600	630
High static pressure	Pa	13	50	57	13	50	57	16	50	59	16	50	53	20	50	60	20	50	56	23	50	55	23	50	55
Input power	W	7	27	31	7	27	31	10	11	40	10	30	40	14	38	48	14	38	48	18	50	60	18	50	60
Signal 0-10V	%	43	84	90	43	84	90	48	83	90	48	83	90	52	82	90	52	82	90	58	85	90	58	85	90

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	37,0	57,0	59,0	36,0	50,0	53,0	36,0	50,0	53,0	43,0	53,0	55,0	43,0	53,0	55,0	45,0	56,0	57,0	45,0	56,0	57,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	33,0	53,0	55,0	32,0	47,0	49,0	32,0	47,0	49,0	39,0	49,0	52,0	39,0	49,0	52,0	42,0	52,0	52,0	42,0	52,0	52,0

Water coil

Water content main coil	l	0,5		0,7		0,8		1,0		1,0		1,4		1,0		1,4	
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Diametre hydraulic fittings

Main coil	Ø	1/2"		1/2"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"	
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	FCZI700P			FCZI750P			FCZI900P			FCZI950P		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	5,33	8,34	8,88	6,17	9,52	10,15	6,58	11,15	11,87	6,68	11,63	12,66
Water flow rate system side	l/h	468	732	779	541	835	890	566	958	1021	574	1000	1088
Pressure drop system side	kPa	8	17	20	5	11	12	5	13	14	6	17	19

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	2,67	4,15	4,40	2,46	4,69	5,00	3,27	5,54	5,90	3,32	5,78	6,29
Water flow rate system side	l/h	460	720	767	418	806	860	562	953	1015	571	994	1082
Pressure drop system side	kPa	8	18	20	3	11	12	5	13	14	6	17	19

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	2,20	4,00	4,30	2,60	4,41	4,70	2,81	4,80	5,20	3,58	6,00	6,46
Sensible cooling capacity	kW	1,71	3,00	3,20	1,90	3,30	3,50	2,10	3,60	3,90	2,33	3,94	4,27
Water flow rate system side	l/h	378	688	739	447	760	818	483	825	894	616	1032	1111
Pressure drop system side	kPa	7	18	20	4	11	12	5	13	14	7	17	19

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	3			3			3			3		
Air flow rate	m³/h	405	730	799	405	730	799	405	730	799	405	730	799
High static pressure	Pa	15	50	60	15	50	60	15	50	60	15	50	60
Input power	W	21	61	78	21	61	78	21	61	78	21	61	78
Signal 0-10V	%	46	82	90	46	82	90	45	84	90	45	84	90

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	41,0	55,0	58,0	41,0	55,0	58,0	44,0	55,0	58,0	44,0	55,0	58,0
Sound power level (outlet)	dB(A)	36,0	51,0	54,0	36,0	51,0	54,0	40,0	51,0	54,0	40,0	51,0	54,0

Water coil

Water content main coil	l	1,2			1,6			1,8			2,3		
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Diametre hydraulic fittings

Main coil	Ø	3/4"										
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

pipe	FCZI201P			FCZI301P			FCZI401P			FCZI501P			FCZI701P			FCZI901P			
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	
Heating performance 65 °C / 55 °C (1)																			
Heating capacity	kW	1,02	1,35	1,60	1,80	2,18	2,56	2,21	2,65	3,12	2,59	3,34	3,73	3,66	4,29	4,94	4,73	5,63	5,72
Water flow rate system side	l/h	89	118	140	158	191	224	186	232	273	227	293	327	320	375	437	414	492	501
Pressure drop system side	kPa	4	8	10	16	23	30	4	6	8	6	8	10	11	14	18	8	12	12
Cooling performance 7 °C / 12 °C (2)																			
Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25	3,92	4,89	5,50	4,29	5,00	6,91
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18	2,99	3,76	4,30	2,97	3,78	5,68
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731	675	841	946	738	860	1189
Pressure drop system side	kPa	6	12	18	8	13	18	10	16	24	13	22	29	16	24	30	10	12	22
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Inverter																	
Number	no.	1			2			2			2			3			3		
Air flow rate	m³/h	123	240	257	225	390	424	300	470	515	410	600	630	405	730	799	405	730	799
High static pressure	Pa	13	50	57	16	50	59	20	50	60	23	50	55	15	50	60	15	50	60
Input power	W	7	27	31	10	31	40	14	38	58	18	50	60	21	61	78	21	61	78
Signal 0-10V	%	43	84	90	48	83	90	52	82	90	58	85	90	46	82	90	45	84	90
Duct type fan coil sound data (3)																			
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	36,0	50,0	53,0	43,0	53,0	55,0	45,0	56,0	57,0	41,0	55,0	58,0	41,0	55,0	58,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	32,0	47,0	49,0	39,0	49,0	52,0	42,0	52,0	52,0	36,0	51,0	54,0	36,0	51,0	54,0
Water coil																			
Water content main coil	l	0,5			0,8			1,0			1,0			1,2			1,8		
Water content the secondary coil	l	0,2			0,3			0,3			0,3			0,4			0,7		
Diameter hydraulic fittings																			
Main coil	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary coil	Ø	1/2"																	

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE DATA FOR UNITS WITH HEAD (EUROVENT CERTIFICATE FCP-H)

2-pipe

	FCZI200P			FCZI250P			FCZI300P			FCZI350P			FCZI400P			FCZI450P			FCZI500P			FCZI550P		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	1,81	3,16	3,34	2,01	3,40	3,62	3,08	4,83	5,23	3,32	5,43	5,83	3,96	5,85	6,34	4,10	6,44	6,96	5,39	7,28	7,63	5,92	8,37	8,71
Water flow rate system side	l/h	156	272	287	173	292	311	265	415	450	285	467	502	341	503	545	353	554	599	464	626	656	509	720	749
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	0,90	1,57	1,66	1,00	1,69	1,80	1,53	2,40	2,60	1,65	2,70	2,90	1,97	2,91	3,15	2,04	3,20	3,46	2,68	3,62	3,79	2,94	4,16	4,33
Water flow rate system side	l/h	155	270	288	172	291	308	263	413	447	284	464	499	339	501	542	351	550	595	461	623	652	506	715	745
Pressure drop system side	kPa	6	13	16	7	17	19	7	14	16	7	17	19	9	17	19	5	12	13	12	22	23	11	20	21

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	0,80	1,37	1,45	0,95	1,67	1,76	1,40	2,38	2,53	1,66	2,70	2,88	2,03	2,98	3,21	2,22	3,28	3,55	2,73	3,68	3,84	2,97	4,15	4,31
Sensible cooling capacity	kW	0,63	1,13	1,20	0,70	1,29	1,37	1,10	1,82	1,94	1,15	1,94	2,07	1,45	2,18	2,36	1,54	2,35	2,56	1,98	2,73	2,85	2,11	2,98	3,12
Water flow rate system side	l/h	138	236	249	163	287	303	241	409	435	285	464	495	349	512	552	382	564	610	469	633	660	511	714	741
Pressure drop system side	kPa	5	13	16	8	17	19	7	14	16	9	17	19	9	17	19	8	12	13	13	22	23	12	20	21

Fan

Type	type	Centrifugal																							
Fan motor	type	Inverter																							
Number	no.	1		1		2		2		2		2		2		2		2		2		2		2	
Air flow rate	m³/h	123	240	257	123	240	257	225	390	424	225	390	424	300	470	515	300	470	515	410	600	630	410	600	630
High static pressure	Pa	13	50	57	13	50	57	16	50	59	16	50	53	20	50	60	20	50	56	23	50	55	23	50	55
Input power	W	7	27	31	7	27	31	10	11	40	10	30	40	14	38	48	14	38	48	18	50	60	18	50	60
Signal 0-10V	%	43	84	90	43	84	90	48	83	90	48	83	90	52	82	90	52	82	90	58	85	90	58	85	90

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	37,0	57,0	59,0	36,0	50,0	53,0	36,0	50,0	53,0	43,0	53,0	55,0	43,0	53,0	55,0	45,0	56,0	57,0	45,0	56,0	57,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	33,0	53,0	55,0	32,0	47,0	49,0	32,0	47,0	49,0	39,0	49,0	52,0	39,0	49,0	52,0	42,0	52,0	52,0	42,0	52,0	52,0

Water coil

Water content main coil	l	0,5		0,7		0,8		1,0		1,0		1,4		1,0		1,4	
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Diametre hydraulic fittings

Main coil	Ø	1/2"		1/2"		3/4"		3/4"		3/4"		3/4"		3/4"		3/4"	
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	FCZI700P			FCZI750P			FCZI900P			FCZI950P		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	5,33	8,34	8,88	6,17	9,52	10,15	6,58	11,15	11,87	6,68	11,63	12,66
Water flow rate system side	l/h	468	732	779	541	835	890	566	958	1021	574	1000	1088
Pressure drop system side	kPa	8	17	20	5	11	12	5	13	14	6	17	19

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	2,67	4,15	4,40	2,46	4,69	5,00	3,27	5,54	5,90	3,32	5,78	6,29
Water flow rate system side	l/h	460	720	767	418	806	860	562	953	1015	571	994	1082
Pressure drop system side	kPa	8	18	20	3	11	12	5	13	14	6	17	19

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	2,20	4,00	4,30	2,60	4,41	4,70	2,81	4,80	5,20	3,58	6,00	6,46
Sensible cooling capacity	kW	1,71	3,00	3,20	1,90	3,30	3,50	2,10	3,60	3,90	2,33	3,94	4,27
Water flow rate system side	l/h	378	688	739	447	760	818	483	825	894	616	1032	1111
Pressure drop system side	kPa	7	18	20	4	11	12	5	13	14	7	17	19

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	3			3			3			3		
Air flow rate	m³/h	405	730	799	405	730	799	405	730	799	405	730	799
High static pressure	Pa	15	50	60	15	50	60	15	50	60	15	50	60
Input power	W	21	61	78	21	61	78	21	61	78	21	61	78
Signal 0-10V	%	46	82	90	46	82	90	45	84	90	45	84	90

Duct type fan coil sound data (4)

Sound power level (inlet + radiated)	dB(A)	41,0	55,0	58,0	41,0	55,0	58,0	44,0	55,0	58,0	44,0	55,0	58,0
Sound power level (outlet)	dB(A)	36,0	51,0	54,0	36,0	51,0	54,0	40,0	51,0	54,0	40,0	51,0	54,0

Water coil

Water content main coil	l	1,2		1,6		1,8		2,3	
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Diametre hydraulic fittings

Main coil	Ø	3/4"										
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(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

4-pipe

		FCZI201P			FCZI301P			FCZI401P			FCZI501P			FCZI701P			FCZI901P		
		1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
Heating performance 65 °C / 55 °C (1)																			
Heating capacity	kW	0,94	1,42	1,49	1,60	2,34	2,47	1,99	2,69	2,85	2,62	3,59	3,45	2,99	3,70	3,92	3,17	5,09	5,47
Water flow rate system side	l/h	81	122	128	138	201	212	171	231	245	225	309	297	257	318	337	273	438	470
Pressure drop system side	kPa	4	9	9	6	12	13	4	7	8	6	9	9	8	12	13	4	10	11
Cooling performance 7 °C / 12 °C (2)																			
Cooling capacity	kW	0,80	1,37	1,45	1,40	2,38	2,53	2,03	2,98	3,21	2,73	3,68	3,84	2,20	4,00	4,30	2,80	4,80	5,24
Sensible cooling capacity	kW	0,63	1,13	1,20	1,10	1,82	1,94	1,45	2,18	2,36	1,98	2,73	2,85	1,71	3,00	3,20	2,10	3,60	3,90
Water flow rate system side	l/h	138	236	249	241	409	435	349	512	552	469	633	660	378	688	739	482	825	901
Pressure drop system side	kPa	5	14	16	7	15	17	9	13	20	13	23	25	6	18	20	5	12	13
Fan																			
Type	type	Centrifugal																	
Fan motor	type	Inverter																	
Number	no.	1			2			2			2			3			3		
Air flow rate	m³/h	123	240	257	225	390	424	300	470	515	410	600	630	405	730	799	405	730	799
High static pressure	Pa	13	50	57	16	50	59	20	50	60	23	50	55	15	50	60	15	50	60
Input power	W	7	27	31	10	31	40	14	38	58	18	50	60	21	61	78	21	61	78
Signal 0-10V	%	43	84	90	48	83	90	52	82	90	58	85	90	46	82	90	45	84	90
Duct type fan coil sound data (3)																			
Sound power level (inlet + radiated)	dB(A)	37,0	57,0	59,0	36,0	50,0	53,0	43,0	53,0	55,0	45,0	56,0	57,0	41,0	55,0	58,0	41,0	55,0	58,0
Sound power level (outlet)	dB(A)	33,0	53,0	55,0	32,0	47,0	49,0	39,0	49,0	52,0	42,0	52,0	52,0	36,0	51,0	54,0	36,0	51,0	54,0
Water coil																			
Water content main coil	l	0,5			0,8			1,0			1,0			1,2			1,8		
Water content the secondary coil	l	0,2			0,3			0,3			0,3			0,4			0,7		
Diameter hydraulic fittings																			
Main coil	Ø	1/2"			3/4"			3/4"			3/4"			3/4"			3/4"		
Secondary coil	Ø	1/2"																	

(1) Room air temperature 20°C d.b.; Water (in/out) 65 °C/55 °C; EUROVENT

(2) Room air temperature 27°C d.b./19°C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(3) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

PERFORMANCE SPECIFICATIONS

2-pipe

	FCZI200DW			FCZI300DW			FCZI400DW			FCZI500DW		
	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H

Heating performance 70 °C / 60 °C (1)

Heating capacity	kW	2,02	2,95	3,70	3,47	4,46	5,50	4,32	5,74	7,15	5,27	7,31	8,50
Water flow rate system side	l/h	177	258	324	304	391	482	379	503	627	462	641	745
Pressure drop system side	kPa	6	12	18	7	12	18	9	16	24	12	21	28

Heating performance 45 °C / 40 °C (2)

Heating capacity	kW	1,00	1,46	1,84	1,72	2,21	2,73	2,14	2,85	3,55	2,62	3,63	4,22
Water flow rate system side	l/h	174	254	319	299	385	475	373	495	617	455	631	734
Pressure drop system side	kPa	6	12	18	8	12	18	10	16	24	12	21	28

Cooling performance 7 °C / 12 °C (3)

Cooling capacity	kW	0,89	1,28	1,60	1,68	2,17	2,65	2,20	2,92	3,60	2,68	3,69	4,25
Sensible cooling capacity	kW	0,71	1,05	1,33	1,26	1,65	2,04	1,59	2,14	2,67	1,94	2,73	3,18
Water flow rate system side	l/h	153	221	275	288	374	456	379	503	619	460	634	731
Pressure drop system side	kPa	7	13	18	8	13	18	10	17	24	13	23	29

Fan

Type	type	Centrifugal											
Fan motor	type	Inverter											
Number	no.	1			2			2			2		
Air flow rate	m³/h	140	220	290	260	350	450	330	460	600	400	600	720
Input power	W	5	8	14	5	7	13	5	10	18	8	18	34
Signal 0-10V	%	44	68	90	52	70	90	49	68	90	50	74	90

Fan coil sound data (4)

Sound power level	dB(A)	31,0	43,0	50,0	34,0	41,0	48,0	37,0	44,0	41,0	42,0	51,0	56,0
Sound pressure	dB(A)	23,0	35,0	42,0	26,0	33,0	40,0	29,0	36,0	53,0	34,0	43,0	48,0

Water coil

Water content main coil	l	0,5			0,8			1,0			1,0	
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Diameter hydraulic fittings

Main coil	Ø	1/2"			3/4"			3/4"			3/4"	
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Power supply

Power supply	230V~50Hz											
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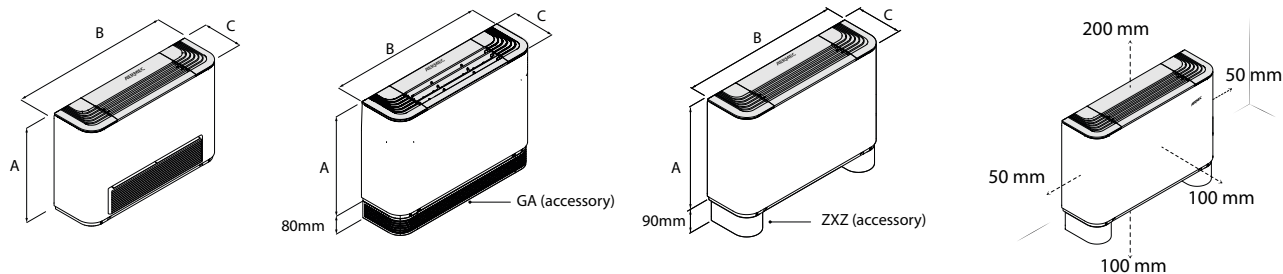
(1) Room air temperature 20 °C d.b.; Water (in/out) 70 °C/60 °C

(2) Room air temperature 20 °C d.b.; Water (in/out) 45 °C/40 °C; EUROVENT

(3) Room air temperature 27 °C d.b./19 °C w.b.; Water (in/out) 7 °C/12 °C; EUROVENT

(4) Aermec determines the sound power value on the basis of measurements taken in accordance with standard UNI EN 16583:15, respecting the Eurovent certification.

11. DIMENSIONS AND WEIGHTS MINIMUM TECHNICAL SPACES



2-pipe

	FCZI200			FCZI250			FCZI300			FCZI350			FCZI400			FCZI450			FCZI500			FCZI550			FCZI700			FCZI750			FCZI900			FCZI950		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Dimensions and weights

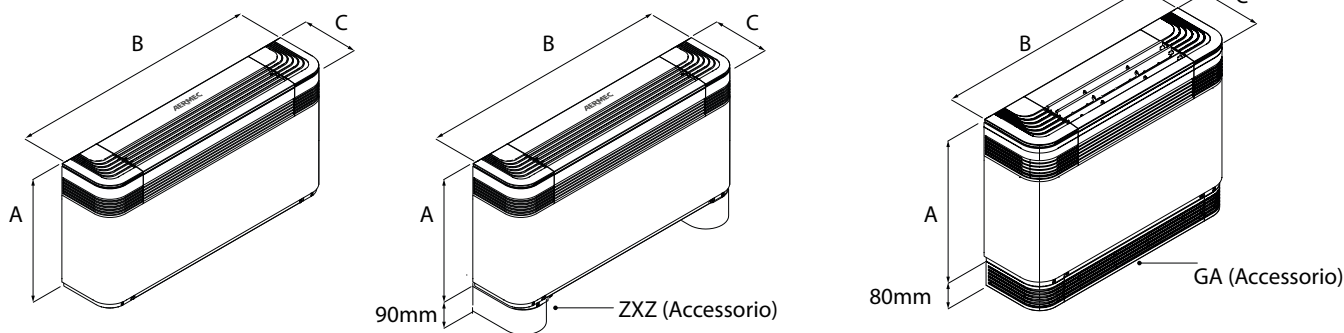
Dimensions and weights													
A	mm	486	486	486	486	486	486	486	486	486	486	591	591
B	mm	750	750	980	980	1200	1200	1200	1200	1320	1320	1320	1320
C	mm	220	220	220	220	220	220	220	220	220	220	220	220
Empty weight	kg	15	16	17	18	22	24	22	24	29	31	34	34

4-pipe

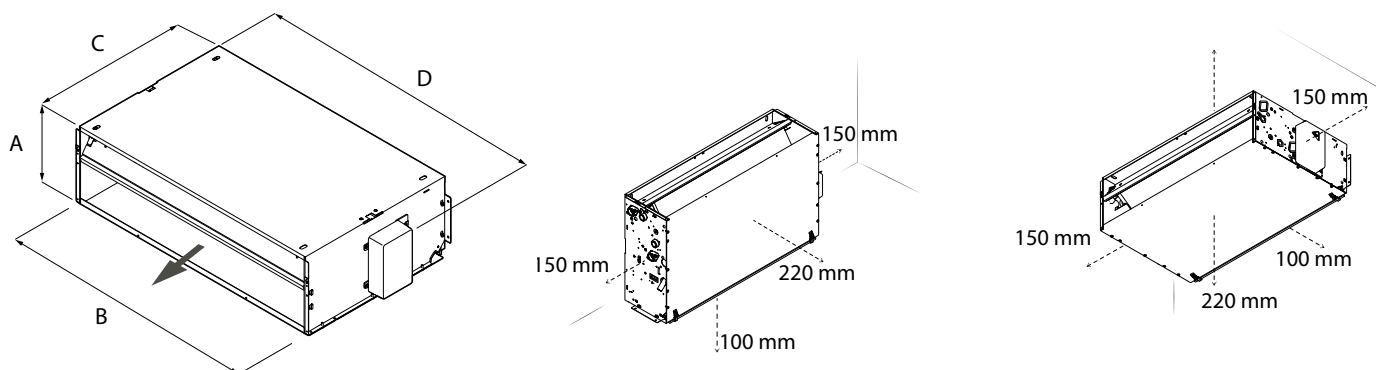
	FCZI201			FCZI301			FCZI401			FCZI501			FCZI701			FCZI901		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H

Dimensions and weights

A	mm	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486	486
B	mm	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750	750
C	mm	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220	220
Empty weight	kg	15	17	23	23	30	34	34	34	34	34	34	34	34	34	34	34	34



FCZI		200 201 202 250 300 301 302 350 400 401 402 450 500 501 502 550 700 701 702 750 900 901 / 950																								
Dimensions and weights																										
Height	A	mm	486				486				486				486				486				591			
Height with feet		mm	576				576				576				576				576				681			
Height feet		90				90				90				90				90				90				
Width	B	mm	750				980				1200				1200				1320				1320			
Depth	C	mm	220				220				220				220				220				220			
Weight without feet		kg	15	15	16	16	17	17	18	18	22	23	24	24	22	23	24	24	29	30	31	31	34			



		FCZI200P	FCZI250P	FCZI300P	FCZI350P	FCZI400P	FCZI450P
Dimensions and weights							
A	mm	216	216	216	216	216	216
B	mm	522	522	753	753	973	973
C	mm	453	453	453	453	453	453
D	mm	562	562	793	793	1013	1013
Net weight	kg	12,0	14,0	14,0	16,0	20,0	22,0

		FCZI500P	FCZI550P	FCZI700P	FCZI750P	FCZI900P	FCZI950P
Dimensions and weights							
A	mm	216	216	216	216	216	216
B	mm	973	973	1122	1122	1122	1122
C	mm	453	453	453	453	558	558
D	mm	1013	1013	1147	1147	1147	1147
Net weight	kg	23,0	24,0	29,0	31,0	32,0	32,0

		FCZI201P	FCZI202P	FCZI301P	FCZI302P	FCZI401P	FCZI402P
Dimensions and weights							
A	mm	216	216	216	216	216	216
B	mm	522	522	753	753	973	973
C	mm	453	453	453	453	453	453
D	mm	562	562	793	793	1013	1013
Net weight	kg	13,0	14,0	15,0	16,0	21,0	22,0

		FCZI501P	FCZI502P	FCZI701P	FCZI702P	FCZI901P
Dimensions and weights						
A	mm	216	216	216	216	216
B	mm	973	973	1122	1122	1122
C	mm	453	453	453	453	558
D	mm	1013	1013	1147	1147	1147
Net weight	kg	23,0	24,0	30,0	31,0	32,0

12. TECHNICAL DATA - ELECTRIC HEATER RX

RXZ Electrical Resistance			
	W	Voltage	A
RX17	700	230	3,0
RX22	950	230	4,1
RX32	1300	230	5,7
RX42	1650	230	7,2
RX52	1950	230	8,5
RX62	2200	230	9,6
RXZ800	2100	230	9,1

13. COOLING POWER YIELDED

The table shows the sensitive and total cooling capacities at maximum speed depending on the temperature of the water entering, of its heat drop and temperature of the air with dry bulb and wet bulb respectively for sensitive yield and total yield for standard coil versions. The performances at medium and minimum speed are obtained by multiplying the values in the table by the corrective factors indicated for each speed.

NB: The yield values marked in bold indicate the nominal value.

Key:

T_w [°C] = Inlet water temperature.

T_{a B.U.} [°C] = Inlet air temperature with wet bulb.

T_{a B.S.} [°C] = Inlet air temperature with dry bulb.

P_c [w] = Total cooling capacity.

P_s [w] = Sensitive cooling capacity.

Q_v [m³/h] = Air flow rate.

H = maximum speed.

M = medium speed.

L = minimum speed.

NB: The yield values marked in bold indicate the nominal value.

To calculate the cooling capacity yielded, the values shown in the table must be multiplied by the corrective factors referred to the different speeds.

Sensitive yield values greater than the total yield indicate that cooling occurs without dehumidification.

In this case take into account the sensitive yield values only.

The cooling capacities of the table must be multiplied by the following corrective factors:													
		200	201	202	250	300	301	302	350	400	401	402	450
Total cooling capacity corrective values	H	1	1	1	1	1	1	1	1	1	1	1	1
	M	0,80	0,80	0,80	0,80	0,82	0,82	0,82	0,81	0,81	0,81	0,81	0,80
	L	0,56	0,56	0,56	0,55	0,63	0,63	0,63	0,62	0,61	0,61	0,61	0,60
Sensitive cooling capacity corrective values	H	1	1	1	1	1	1	1	1	1	1	1	1
	M	0,79	0,79	0,79	0,79	0,81	0,81	0,81	0,81	0,80	0,80	0,80	0,79
	L	0,53	0,53	0,53	0,52	0,62	0,62	0,62	0,61	0,60	0,60	0,60	0,58

The cooling capacities of the table must be multiplied by the following corrective factors:												
		500	501	502	550	700	701	702	750	900	901	950
Total cooling capacity corrective values	H	1	1	1	1	1	1	1	1	1	1	1
	M	0,87	0,87	0,87	0,86	0,89	0,89	0,89	0,87	0,72	0,72	0,85
	L	0,63	0,63	0,63	0,61	0,71	0,71	0,71	0,70	0,62	0,62	0,67
Sensitive cooling capacity corrective values	H	1	1	1	1	1	1	1	1	1	1	1
	M	0,86	0,86	0,86	0,85	0,87	0,87	0,87	0,86	0,67	0,67	0,84
	L	0,61	0,61	0,61	0,59	0,69	0,69	0,69	0,68	0,52	0,52	0,48

COOLING POWER (STANDARD BATTERY 200-201-202)

FCZI 200-201-202			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	1260	1114	1007	963	728	1116	542	542	422	422
		23	1252	1252	1001	1104	777	777	659	659	540	540
		25	1247	1247	998	1245	890	890	773	773	656	656
		27	1229	1229	1116	1406	1001	1001	885	885	770	770
		29	1340	1340	1226	1544	1111	1111	996	996	881	881
		31	1447	1447	1333	1680	1219	1219	1106	1106	992	992
	17	21	1586	1115	1337	966	1066	814	767	659	400	400
		23	1594	1256	1347	1108	1079	958	781	781	540	540
		25	1583	1396	1337	1248	1070	1070	774	774	656	656
		27	1578	1534	1333	1388	1068	1068	885	885	770	770
		29	1558	1558	1315	1525	1111	1111	996	996	881	881
		31	1549	1549	1333	1680	1219	1219	1106	1106	992	992
	19	21	1972	1109	1725	963	1459	814	1170	660	848	506
		23	1961	1255	1715	1108	1451	961	1164	812	844	654
		25	1952	1395	1708	1249	1445	1103	1159	954	842	801
		27	1941	1533	1698	1388	1437	1242	1152	1093	836	836
		29	1946	1681	1688	1526	1428	1381	1146	1146	881	881
		31	1938	1815	1682	1662	1424	1424	1143	1143	992	992
	21	21	2345	1100	2099	953	1836	807	1551	659	1239	510
		23	2373	1260	2112	1104	1850	958	1567	808	1258	659
		25	2360	1403	2101	1248	1840	1104	1558	957	1252	806
		27	2345	1541	2086	1387	1828	1243	1548	1098	1242	951
		29	2356	1678	2099	1525	1842	1381	1565	1237	1262	1091
		31	2311	1813	2056	1661	1801	1518	1524	1374	1223	1223
	23	23	2776	1248	2516	1094	2255	949	1974	804	1669	658
		25	2787	1396	2529	1242	2269	1099	1991	950	1688	805
		27	2646	1539	2389	1386	2131	1242	1854	1099	1552	953
		29	2752	1664	2513	1523	2258	1380	1981	1237	1683	1094
		31	2713	1799	2476	1659	2221	1517	1947	1375	1650	1232
	5	21	1150	1047	863	881	619	619	495	495	364	364
	15	23	1144	1144	858	1024	738	738	617	617	493	493
		25	1140	1140	972	1225	855	855	736	736	616	616
		27	1201	1201	1085	1367	969	969	852	852	733	733
		29	1311	1311	1196	1506	1080	1080	965	965	848	848
		31	1419	1419	1304	1643	1190	1190	1076	1076	960	960
	17	21	1490	1055	1219	899	911	732	505	505	364	364
		23	1500	1198	1232	1043	927	878	617	617	493	493
		25	1489	1339	1223	1184	920	920	736	736	616	616
		27	1485	1477	1220	1323	969	969	852	852	733	733
		29	1466	1466	1203	1460	1080	1080	965	965	848	848
		31	1458	1458	1304	1643	1190	1190	1076	1076	960	960
	19	21	1885	1056	1623	905	1336	745	1007	581	585	387
		23	1875	1203	1615	1051	1329	896	1003	733	583	537
		25	1867	1343	1609	1193	1324	1039	1000	876	583	583
		27	1857	1481	1600	1330	1317	1175	995	995	733	733
		29	1847	1619	1591	1471	1310	1310	989	989	848	848
		31	1839	1755	1586	1607	1307	1307	1076	1076	960	960
	21	21	2265	1051	2008	901	1727	750	1418	595	1057	423
		23	2276	1201	2021	1052	1744	898	1437	743	1086	580
		25	2265	1344	2011	1197	1735	1048	1430	891	1081	728
		27	2250	1483	1998	1337	1724	1188	1420	1035	1073	874
		29	2263	1621	2013	1475	1741	1327	1440	1176	1096	1016
		31	2219	1757	1970	1611	1699	1464	1399	1313	1056	1056
	23	23	2684	1192	2431	1046	2158	898	1860	748	1529	590
		25	2697	1341	2446	1195	2174	1045	1879	895	1552	742
		27	2556	1483	2306	1339	2035	1191	1739	1042	1409	885
		29	2681	1621	2433	1476	2165	1331	1873	1184	1550	1032
		31	2642	1756	2395	1613	2129	1469	1838	1321	1516	1171
	7	21	982	947	587	732	561	561	409	409	173	173
	15	23	976	976	812	1016	689	689	561	561	414	414
		25	1050	1050	931	1173	810	810	687	687	559	559
		27	1164	1164	1047	1318	928	928	808	808	685	685
		29	1276	1276	1160	1461	1043	1043	925	925	806	806
		31	1386	1386	1271	1601	1155	1155	1039	1039	922	922
	17	21	1354	975	1038	800	609	582	409	409	173	173
		23	1366	1119	1054	945	634	634	561	561	414	414
		25	1357	1261	1046	1086	810	810	687	687	559	559
		27	1354	1354	1046	1227	928	928	808	808	685	685
		29	1336	1336	1160	1461	1043	1043	925	925	806	806
		31	1329	1329	1271	1601	1155	1155	1039	1039	922	922
	19	21	1770	989	1481	826	1145	648	692	435	173	173
		23	1761	1135	1474	973	1140	800	689	584	414	414
		25	1754	1276	1468	1115	1137	943	689	689	559	559
		27	1745	1412	1460	1249	1131	1070	808	808	685	685
		29	1736	1554	1454	1394	1125	1125	925	925	806	806
		31	1731	1689	1450	1531	1124	1124	1039	1039	922	922
	21	21	2161	989	1884	833	1574	671	1210	492	709	274
		23	2175	1140	1900	985	1593	820	1234	648	749	432
		25	2164	1285	1891	1131	1585	971	1229	795	747	584
		27	2151	1424	1880	1271	1575	1112	1221	941	740	730
		29	2166	1563	1897	1410	1595	1253	1245	1083	777	777
		31	2122	1698	1854	1547	1553	1389	1202	1202	922	922
	23	23	2590	1137	2323	986	2028	832	1698	671	1310	493
		25	2605	1287	2340	1136	2047	979	1720	819	1337	645
		27	2463	1428	2197	1278	1904	1124	1573	963	1174	782
		29	2591	1567	2329	1419	2041	1267	1718	1110	1340	941
		31	2553	1704	2292	1556	2005	1404	1683	1247	1306	1078

COOLING POWER (STANDARD BATTERY 250)

FCZI 250			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	1528	1273	1221	1100	882	1276	658	658	511	511
		23	1519	1435	1214	1262	942	942	799	799	655	655
		25	1512	1512	1210	1423	1079	1079	937	937	795	795
		27	1490	1490	1354	1607	1214	1214	1073	1073	933	933
		29	1625	1625	1486	1765	1347	1347	1208	1208	1069	1069
		31	1755	1755	1617	1920	1479	1479	1341	1341	1202	1202
	17	21	1923	1274	1621	1104	1293	931	930	753	485	485
		23	1934	1435	1634	1267	1308	1095	947	919	655	655
		25	1920	1595	1621	1426	1298	1257	939	939	795	795
		27	1913	1754	1617	1586	1295	1295	1073	1073	933	933
		29	1889	1889	1595	1742	1347	1347	1208	1208	1069	1069
		31	1879	1879	1617	1920	1479	1479	1341	1341	1202	1202
	19	21	2391	1268	2092	1100	1769	931	1419	754	1029	578
		23	2378	1434	2080	1267	1760	1098	1411	929	1023	748
		25	2367	1594	2071	1427	1753	1260	1406	1090	1021	915
		27	2354	1752	2059	1586	1742	1420	1397	1249	1014	1014
		29	2360	1921	2047	1744	1732	1578	1390	1390	1069	1069
		31	2350	2074	2039	1899	1727	1727	1386	1386	1202	1202
	21	21	2844	1257	2546	1089	2227	922	1881	753	1503	583
		23	2878	1440	2561	1261	2243	1095	1900	923	1525	753
		25	2862	1604	2548	1426	2231	1261	1890	1094	1518	921
		27	2844	1761	2530	1585	2216	1421	1877	1255	1507	1087
		29	2857	1918	2546	1742	2234	1578	1897	1414	1530	1247
		31	2803	2072	2494	1898	2184	1735	1848	1571	1483	1404
	23	23	3366	1426	3051	1250	2734	1085	2394	919	2024	752
		25	3380	1595	3066	1420	2752	1256	2414	1086	2048	920
		27	3209	1759	2897	1584	2585	1420	2248	1256	1882	1089
		29	3337	1902	3048	1740	2738	1577	2403	1414	2041	1250
		31	3290	2056	3002	1896	2693	1734	2361	1572	2001	1408
		31	3290	2056	3002	1896	2693	1734	2361	1572	2001	1408
5	15	21	1394	1196	1047	1007	751	751	600	600	442	442
		23	1387	1359	1041	1170	895	895	749	749	598	598
		25	1382	1382	1179	1400	1036	1036	893	893	747	747
		27	1457	1457	1316	1562	1175	1175	1033	1033	889	889
		29	1589	1589	1450	1722	1310	1310	1170	1170	1028	1028
		31	1721	1721	1582	1878	1444	1444	1304	1304	1164	1164
	17	21	1806	1206	1479	1028	1105	837	612	608	442	442
		23	1818	1369	1494	1192	1124	1003	749	749	598	598
		25	1805	1530	1483	1353	1115	1115	893	893	747	747
		27	1801	1689	1480	1512	1175	1175	1033	1033	889	889
		29	1778	1778	1458	1669	1310	1310	1170	1170	1028	1028
		31	1768	1768	1582	1878	1444	1444	1304	1304	1164	1164
	19	21	2286	1207	1969	1034	1620	851	1221	664	710	443
		23	2274	1375	1959	1202	1612	1024	1216	838	707	614
		25	2264	1535	1951	1364	1606	1187	1213	1001	707	707
		27	2252	1693	1940	1520	1597	1343	1206	1152	889	889
		29	2240	1850	1930	1681	1588	1506	1200	1200	1028	1028
		31	2230	2006	1923	1836	1585	1585	1304	1304	1164	1164
	21	21	2746	1201	2435	1030	2095	857	1719	680	1282	484
		23	2760	1372	2451	1203	2114	1027	1742	849	1317	663
		25	2746	1537	2439	1368	2104	1197	1734	1018	1311	832
		27	2729	1695	2423	1528	2090	1358	1722	1183	1302	999
		29	2744	1853	2441	1685	2111	1517	1746	1344	1330	1161
		31	2692	2008	2389	1842	2061	1673	1697	1500	1280	1280
	23	23	3255	1362	2949	1195	2617	1027	2255	855	1855	674
		25	3270	1532	2966	1366	2637	1194	2279	1023	1882	848
		27	3100	1695	2796	1530	2468	1361	2109	1191	1709	1011
		29	3251	1853	2950	1687	2626	1521	2271	1354	1880	1180
		31	3204	2007	2905	1844	2582	1679	2229	1510	1839	1338
		31	3204	2007	2905	1844	2582	1679	2229	1510	1839	1338
7	15	21	1190	1083	712	837	680	680	496	496	210	210
		23	1184	1184	985	1161	835	835	680	680	502	502
		25	1274	1274	1129	1340	983	983	833	833	678	678
		27	1412	1412	1269	1507	1125	1125	980	980	831	831
		29	1548	1548	1407	1670	1265	1265	1122	1122	977	977
		31	1681	1681	1541	1830	1401	1401	1260	1260	1118	1118
	17	21	1642	1115	1259	914	739	665	496	496	210	210
		23	1657	1279	1278	1081	769	769	680	680	502	502
		25	1646	1441	1268	1241	983	983	833	833	678	678
		27	1642	1599	1268	1402	1125	1125	980	980	831	831
		29	1620	1620	1407	1670	1265	1265	1122	1122	977	977
		31	1612	1612	1541	1830	1401	1401	1260	1260	1118	1118
	19	21	2146	1130	1796	944	1388	740	839	497	210	210
		23	2136	1298	1788	1112	1382	914	836	667	502	502
		25	2127	1458	1780	1274	1379	1077	836	836	678	678
		27	2116	1614	1771	1427	1371	1223	980	980	831	831
		29	2105	1776	1763	1593	1365	1365	1122	1122	977	977
		31	2099	1931	1758	1750	1363	1363	1260	1260	1118	1118
	21	21	2620	1130	2285	952	1908	767	1468	563	860	313
		23	2638	1303	2305	1126	1932	937	1497	740	908	493
		25	2625	1468	2293	1293	1922	1109	1491	909	906	667
		27	2608	1628	2280	1453	1910	1271	1481	1075	897	834
		29	2627	1787	2300	1611	1934	1432	1510	1238	943	943
		31	2574	1941	2248	1768	1883	1587	1458	1393	1118	1118
	23	23	3141	1300	2817	1127	2460	951	2059	767	1588	564
		25	3159	1470	2837	1299	2483	1119	2086	936	1621	737
		27	2987	1632	2665	1461	2309	1284	1908	1100	1424	893
		29	3142	1791	2824	1621	2475	1448	2083	1269	1625	1075
		31	3096	1947	2780	1778	2432	1605	2041	1425	1584	1233
		31	3096	1947	2780	1778	2432	1605	2041	1425	1584	1233

COOLING POWER (STANDARD BATTERY 300-301-302)

FCZI300-301-302			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	2087	1713	1668	1480	1205	1716	899	899	698	698
		23	2075	1930	1658	1698	1286	1286	1091	1091	895	895
		25	2066	2066	1653	1914	1474	1474	1280	1280	1086	1086
		27	2035	2035	1849	2162	1658	1658	1466	1466	1275	1275
		29	2220	2220	2030	2373	1840	1840	1650	1650	1460	1460
		31	2398	2398	2209	2582	2020	2020	1831	1831	1642	1642
	17	21	2627	1714	2214	1485	1767	1252	1270	1013	663	663
		23	2641	1930	2232	1704	1787	1473	1294	1236	895	895
		25	2622	2145	2214	1919	1773	1690	1283	1283	1086	1086
		27	2613	2359	2209	2133	1769	1769	1466	1466	1275	1275
		29	2580	2568	2179	2344	1840	1840	1650	1650	1460	1460
		31	2566	2566	2209	2582	2020	2020	1831	1831	1642	1642
	19	21	3266	1705	2858	1480	2417	1252	1938	1015	1405	778
		23	3248	1929	2841	1704	2404	1477	1928	1249	1398	1006
		25	3233	2144	2829	1920	2394	1695	1920	1467	1394	1231
		27	3215	2357	2812	2133	2380	1910	1909	1680	1385	1385
		29	3224	2584	2796	2345	2366	2123	1898	1896	1460	1460
		31	3210	2790	2786	2554	2359	2332	1893	1893	1642	1642
	21	21	3884	1690	3478	1465	3042	1240	2569	1013	2053	784
		23	3931	1936	3498	1696	3064	1473	2596	1242	2084	1013
		25	3910	2157	3480	1919	3048	1696	2582	1471	2073	1239
		27	3884	2369	3456	2132	3028	1911	2564	1688	2058	1462
		29	3902	2579	3478	2344	3052	2123	2592	1902	2090	1677
		31	3829	2787	3407	2553	2983	2333	2525	2113	2025	1889
	23	23	4598	1919	4167	1682	3735	1459	3270	1236	2765	1012
		25	4617	2145	4189	1910	3759	1689	3298	1461	2797	1237
		27	4384	2366	3958	2131	3531	1910	3071	1689	2571	1465
		29	4559	2559	4163	2341	3740	2122	3282	1902	2788	1682
		31	4494	2766	4101	2550	3679	2332	3225	2114	2734	1893
		31	4494	2766	4101	2550	3679	2332	3225	2114	2734	1893
5	15	21	1905	1609	1430	1354	1025	1025	820	820	603	603
		23	1895	1828	1422	1573	1223	1223	1023	1023	817	817
		25	1888	1888	1611	1883	1416	1416	1219	1219	1020	1020
		27	1990	1990	1797	2101	1604	1604	1411	1411	1214	1214
		29	2171	2171	1981	2316	1789	1789	1598	1598	1404	1404
		31	2351	2351	2161	2526	1972	1972	1782	1782	1591	1591
	17	21	2468	1622	2020	1382	1509	1126	836	818	603	603
		23	2484	1842	2040	1603	1536	1350	1023	1023	817	817
		25	2466	2058	2025	1819	1523	1523	1219	1219	1020	1020
		27	2460	2271	2021	2034	1604	1604	1411	1411	1214	1214
		29	2428	2428	1992	2245	1789	1789	1598	1598	1404	1404
		31	2416	2416	2161	2526	1972	1972	1782	1782	1591	1591
	19	21	3123	1624	2689	1391	2213	1145	1668	893	970	596
		23	3106	1849	2675	1616	2201	1378	1661	1127	966	825
		25	3092	2065	2665	1834	2194	1597	1656	1347	966	966
		27	3076	2277	2650	2045	2181	1806	1648	1550	1214	1214
		29	3059	2489	2636	2261	2170	2025	1639	1639	1404	1404
		31	3047	2698	2627	2470	2165	2165	1782	1782	1591	1591
	21	21	3751	1615	3325	1385	2862	1153	2348	914	1751	650
		23	3770	1846	3348	1618	2888	1381	2380	1142	1798	892
		25	3751	2067	3332	1840	2874	1610	2369	1369	1791	1119
		27	3727	2280	3310	2055	2855	1827	2352	1591	1778	1344
		29	3749	2492	3334	2267	2883	2040	2385	1808	1816	1562
		31	3677	2701	3263	2477	2815	2251	2318	2018	1749	1749
	23	23	4446	1833	4028	1608	3575	1381	3081	1150	2533	907
		25	4467	2061	4052	1837	3602	1606	3113	1376	2570	1141
		27	4234	2280	3820	2058	3371	1831	2881	1602	2334	1360
		29	4441	2492	4030	2270	3587	2046	3102	1821	2568	1587
		31	4376	2699	3968	2480	3527	2258	3045	2031	2512	1800
		31	4376	2699	3968	2480	3527	2258	3045	2031	2512	1800
7	15	21	1626	1456	972	1126	929	929	678	678	286	286
		23	1617	1617	1346	1562	1141	1141	929	929	686	686
		25	1740	1740	1542	1803	1342	1342	1138	1138	926	926
		27	1929	1929	1734	2027	1537	1537	1338	1338	1136	1136
		29	2114	2114	1921	2246	1727	1727	1532	1532	1335	1335
		31	2296	2296	2105	2461	1914	1914	1721	1721	1527	1527
	17	21	2243	1499	1720	1230	1009	895	678	678	286	286
		23	2263	1720	1746	1453	1051	1051	929	929	686	686
		25	2248	1938	1732	1670	1342	1342	1138	1138	926	926
		27	2243	2151	1732	1886	1537	1537	1338	1338	1136	1136
		29	2213	2213	1921	2246	1727	1727	1532	1532	1335	1335
		31	2201	2201	2105	2461	1914	1914	1721	1721	1527	1527
	19	21	2931	1520	2454	1270	1896	996	1146	668	286	286
		23	2917	1745	2442	1496	1888	1230	1142	898	686	686
		25	2906	1962	2432	1714	1883	1449	1142	1125	926	926
		27	2891	2171	2419	1920	1873	1645	1338	1338	1136	1136
		29	2876	2388	2408	2142	1864	1864	1532	1532	1335	1335
		31	2867	2597	2402	2354	1862	1862	1721	1721	1527	1527
	21	21	3579	1520	3121	1280	2607	1031	2005	757	1175	421
		23	3603	1753	3148	1514	2639	1261	2044	996	1241	664
		25	3585	1975	3133	1739	2626	1492	2037	1222	1237	898
		27	3562	2190	3114	1954	2609	1710	2023	1446	1226	1122
		29	3588	2403	3142	2168	2642	1926	2062	1665	1288	1288
		31	3516	2611	3071	2378	2573	2135	1991	1874	1527	1527
	23	23	4291	1748	3848	1516	3360	1279	2812	1031	2170	759
		25	4315	1978	3876	1747	3391	1505	2849	1259	2214	991
		27	4081	2196	3640	1965	3154	1728	2606	1480	1945	1202
		29	4292	2409	3858	2181	3381	1948	2845	1707	2220	1446
		31	4229	2619	3797	2391	3322	2159	2788	1917	2163	1658
		31	4229	2619	3797	2391	3322	2159	2788	1917	2163	1658

COOLING POWER (STANDARD BATTERY 350)

FCZI 350			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
°C	°C	°C	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	2383	1826	1904	1578	1376	1830	1026	1026	797	797
		23	2368	2058	1892	1810	1468	1468	1246	1246	1021	1021
		25	2358	2287	1886	2041	1682	1682	1461	1461	1240	1240
		27	2323	2323	2111	2305	1892	1892	1674	1674	1455	1455
		29	2535	2535	2318	2531	2101	2101	1884	1884	1667	1667
		31	2737	2737	2522	2753	2306	2306	2090	2090	1875	1875
	17	21	2999	1828	2527	1583	2017	1335	1450	1081	757	757
		23	3015	2058	2548	1817	2040	1570	1477	1317	1021	1021
		25	2993	2287	2527	2046	2024	1802	1464	1464	1240	1240
		27	2983	2515	2522	2275	2020	2020	1674	1674	1455	1455
		29	2945	2738	2487	2499	2101	2101	1884	1884	1667	1667
		31	2930	2930	2522	2753	2306	2306	2090	2090	1875	1875
	19	21	3728	1818	3262	1578	2759	1335	2212	1082	1604	829
		23	3708	2057	3243	1817	2744	1575	2200	1332	1596	1073
		25	3690	2286	3229	2047	2733	1807	2192	1564	1591	1313
		27	3670	2513	3210	2275	2717	2036	2179	1791	1581	1581
		29	3680	2755	3191	2501	2701	2264	2167	2022	1667	1667
		31	3664	2975	3180	2723	2692	2486	2161	2161	1875	1875
	21	21	4434	1802	3970	1562	3472	1322	2932	1081	2344	836
		23	4488	2065	3993	1809	3498	1570	2963	1324	2378	1081
		25	4463	2300	3973	2046	3479	1809	2947	1569	2367	1321
		27	4434	2526	3945	2273	3456	2038	2927	1799	2349	1559
		29	4454	2750	3970	2499	3484	2264	2958	2028	2386	1788
		31	4370	2971	3889	2722	3405	2488	2882	2253	2312	2014
	23	23	5249	2046	4757	1793	4263	1556	3732	1317	3157	1079
		25	5270	2287	4781	2036	4291	1801	3764	1558	3193	1319
		27	5004	2523	4518	2272	4030	2036	3505	1801	2935	1562
		29	5204	2728	4752	2496	4269	2262	3747	2028	3183	1793
		31	5130	2949	4681	2719	4200	2486	3682	2254	3120	2019
5	15	21	2174	1716	1632	1444	1170	1170	936	936	689	689
		23	2163	1949	1623	1678	1396	1396	1167	1167	933	933
		25	2156	2156	1839	2008	1616	1616	1392	1392	1165	1165
		27	2271	2271	2051	2240	1831	1831	1610	1610	1386	1386
		29	2478	2478	2261	2469	2043	2043	1824	1824	1603	1603
		31	2684	2684	2467	2693	2251	2251	2034	2034	1816	1816
	17	21	2817	1730	2306	1474	1723	1201	955	872	689	689
		23	2835	1964	2329	1709	1753	1439	1167	1167	933	933
		25	2815	2194	2312	1940	1739	1671	1392	1392	1165	1165
		27	2808	2422	2307	2169	1831	1831	1610	1610	1386	1386
		29	2772	2646	2274	2393	2043	2043	1824	1824	1603	1603
		31	2757	2757	2467	2693	2251	2251	2034	2034	1816	1816
	19	21	3565	1731	3070	1483	2526	1221	1904	953	1107	635
		23	3546	1971	3054	1723	2513	1469	1897	1202	1102	880
		25	3530	2202	3042	1956	2504	1703	1891	1436	1102	1102
		27	3511	2428	3025	2180	2490	1926	1881	1652	1386	1386
		29	3492	2654	3009	2411	2477	2159	1871	1871	1603	1603
		31	3478	2877	2999	2633	2471	2385	2034	2034	1816	1816
	21	21	4282	1722	3796	1477	3267	1229	2681	975	1999	693
		23	4304	1968	3822	1725	3297	1472	2717	1218	2053	951
		25	4282	2204	3803	1962	3281	1717	2704	1460	2044	1193
		27	4255	2431	3779	2191	3259	1948	2685	1697	2030	1433
		29	4279	2657	3806	2417	3291	2175	2723	1927	2073	1665
		31	4197	2880	3725	2641	3213	2400	2646	2152	1996	1889
	23	23	5075	1954	4598	1714	4081	1472	3517	1226	2892	967
		25	5100	2197	4625	1959	4111	1712	3553	1468	2934	1216
		27	4833	2431	4360	2194	3848	1953	3288	1708	2665	1450
		29	5069	2657	4600	2420	4094	2182	3541	1941	2931	1692
		31	4995	2878	4530	2644	4026	2407	3476	2166	2867	1919
		31	1856	1553	1110	1201	1060	1060	774	774	327	327
7	15	23	1846	1787	1536	1665	1302	1302	1060	1060	783	783
		25	1986	1986	1761	1923	1532	1532	1299	1299	1058	1058
		27	2202	2202	1979	2161	1755	1755	1528	1528	1296	1296
		29	2413	2413	2193	2395	1972	1972	1749	1749	1523	1523
		31	2621	2621	2403	2624	2184	2184	1965	1965	1743	1743
		31	2561	1599	1963	1311	1152	954	774	774	327	327
	17	23	2584	1834	1994	1550	1199	1199	1060	1060	783	783
		25	2566	2066	1978	1780	1532	1532	1299	1299	1058	1058
		27	2561	2294	1978	2011	1755	1755	1528	1528	1296	1296
		29	2526	2520	2193	2395	1972	1972	1749	1749	1523	1523
		31	2513	2513	2403	2624	2184	2184	1965	1965	1743	1743
		31	3346	1621	2801	1354	2164	1062	1308	712	327	327
	19	23	3330	1861	2788	1596	2156	1311	1303	957	783	766
		25	3317	2092	2776	1828	2150	1545	1303	1199	1058	1058
		27	3300	2314	2762	2047	2138	1753	1528	1528	1296	1296
		29	3283	2546	2749	2284	2128	2005	1749	1749	1523	1523
		31	3272	2769	2741	2510	2125	2125	1965	1965	1743	1743
		31	4085	1621	3563	1365	2976	1099	2289	807	1341	449
	21	23	4113	1869	3594	1614	3012	1344	2333	1062	1416	708
		25	4093	2106	3576	1855	2998	1591	2325	1303	1412	957
		27	4067	2335	3554	2084	2979	1823	2309	1542	1399	1196
		29	4096	2562	3586	2311	3016	2054	2354	1776	1470	1439
		31	4013	2783	3505	2535	2937	2276	2273	1998	1743	1743
		31	4898	1864	4392	1616	3835	1363	3210	1099	2477	809
	23	25	4926	2109	4424	1862	3871	1605	3252	1343	2527	1057
		27	4658	2341	4155	2095	3601	1842	2974	1578	2221	1281
		29	4900	2569	4404	2325	3860	2077	3248	1820	2535	1542
		31	4828	2793	4334	2550	3792	2302	3183	2044	2469	1768

COOLING POWER (STANDARD BATTERY 400-401-402)

FCZI 400-401-402			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
°C	°C	°C	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	2836	2237	2266	1933	1637	2241	1221	1221	949	949
		23	2818	2521	2252	2217	1747	1747	1482	1482	1215	1215
		25	2806	2802	2245	2500	2002	2002	1739	1739	1475	1475
		27	2765	2765	2512	2823	2252	2252	1992	1992	1732	1732
		29	3016	3016	2758	3100	2500	2500	2242	2242	1983	1983
		31	3257	3257	3001	3372	2744	2744	2488	2488	2231	2231
	17	21	3569	2239	3008	1939	2400	1635	1725	1323	900	900
		23	3588	2521	3032	2225	2428	1923	1758	1614	1215	1215
		25	3562	2802	3008	2506	2409	2208	1742	1742	1475	1475
		27	3550	3080	3001	2786	2403	2403	1992	1992	1732	1732
		29	3505	3353	2960	3061	2500	2500	2242	2242	1983	1983
		31	3486	3486	3001	3372	2744	2744	2488	2488	2231	2231
	19	21	4437	2227	3882	1933	3283	1635	2632	1325	1909	1016
		23	4413	2519	3860	2225	3266	1929	2619	1631	1899	1314
		25	4392	2800	3843	2507	3252	2213	2608	1915	1894	1608
		27	4368	3078	3820	2786	3233	2494	2593	2194	1882	1882
		29	4380	3374	3798	3063	3214	2773	2579	2477	1983	1983
		31	4361	3643	3784	3336	3204	3045	2572	2572	2231	2231
	21	21	5277	2208	4724	1914	4132	1619	3490	1323	2789	1024
		23	5341	2529	4752	2215	4163	1923	3526	1621	2830	1323
		25	5311	2817	4728	2506	4141	2215	3507	1921	2817	1617
		27	5277	3094	4695	2784	4113	2496	3483	2204	2796	1910
		29	5301	3368	4724	3061	4146	2773	3521	2484	2839	2190
		31	5201	3639	4628	3334	4053	3047	3430	2759	2751	2467
	23	23	6246	2506	5661	2196	5074	1906	4442	1614	3757	1321
		25	6272	2802	5690	2494	5106	2206	4480	1908	3800	1616
		27	5955	3090	5377	2782	4797	2494	4172	2206	3493	1914
		29	6193	3341	5656	3057	5081	2771	4459	2484	3788	2196
		31	6105	3612	5571	3330	4998	3045	4382	2761	3714	2473
5	15	21	2588	2101	1942	1768	1393	1393	1114	1114	820	820
		23	2574	2388	1932	2055	1661	1661	1389	1389	1110	1110
		25	2565	2565	2188	2459	1923	1923	1656	1656	1386	1386
		27	2703	2703	2441	2744	2180	2180	1916	1916	1649	1649
		29	2949	2949	2691	3024	2431	2431	2171	2171	1908	1908
		31	3194	3194	2935	3299	2679	2679	2421	2421	2161	2161
	17	21	3352	2119	2744	1805	2051	1470	1136	1068	820	820
		23	3374	2405	2772	2093	2087	1763	1389	1389	1110	1110
		25	3350	2687	2751	2376	2069	2047	1656	1656	1386	1386
		27	3342	2966	2746	2656	2180	2180	1916	1916	1649	1649
		29	3299	3241	2706	2931	2431	2431	2171	2171	1908	1908
		31	3281	3281	2935	3299	2679	2679	2421	2421	2161	2161
	19	21	4242	2121	3653	1817	3006	1496	2266	1167	1317	778
		23	4220	2415	3634	2111	2991	1799	2257	1472	1312	1078
		25	4201	2697	3621	2395	2980	2086	2250	1759	1312	1312
		27	4178	2974	3600	2670	2963	2359	2238	2024	1649	1649
		29	4156	3250	3581	2952	2947	2645	2226	2226	1908	1908
		31	4139	3523	3569	3225	2941	2922	2421	2421	2161	2161
	21	21	5096	2109	4518	1809	3888	1505	3190	1194	2379	849
		23	5122	2411	4549	2113	3924	1803	3233	1492	2443	1165
		25	5096	2699	4526	2403	3905	2103	3218	1788	2433	1461
		27	5063	2978	4497	2684	3879	2386	3195	2078	2415	1755
		29	5093	3254	4530	2960	3917	2664	3240	2360	2467	2039
		31	4995	3527	4433	3235	3824	2939	3149	2635	2376	2314
	23	23	6040	2393	5471	2099	4857	1803	4185	1501	3442	1184
		25	6069	2691	5504	2399	4893	2097	4228	1797	3492	1490
		27	5752	2978	5189	2687	4580	2391	3913	2092	3171	1776
		29	6033	3254	5475	2964	4872	2672	4215	2378	3488	2072
		31	5945	3525	5391	3239	4791	2949	4137	2653	3412	2351
7	15	21	2209	1902	1321	1470	1262	1262	921	921	389	389
		23	2197	2188	1828	2039	1549	1549	1262	1262	931	931
		25	2364	2364	2095	2355	1823	1823	1546	1546	1259	1259
		27	2620	2620	2355	2647	2088	2088	1818	1818	1543	1543
		29	2872	2872	2610	2933	2347	2347	2081	2081	1813	1813
		31	3120	3120	2860	3214	2600	2600	2338	2338	2075	2075
	17	21	3047	1958	2336	1606	1370	1169	921	921	389	389
		23	3075	2246	2372	1898	1427	1427	1262	1262	931	931
		25	3054	2531	2354	2181	1823	1823	1546	1546	1259	1259
		27	3047	2809	2354	2463	2088	2088	1818	1818	1543	1543
		29	3006	3006	2610	2933	2347	2347	2081	2081	1813	1813
		31	2991	2991	2860	3214	2600	2600	2338	2338	2075	2075
	19	21	3982	1985	3333	1658	2576	1300	1556	873	389	389
		23	3963	2279	3318	1954	2565	1606	1551	1172	931	931
		25	3948	2562	3304	2239	2558	1892	1551	1469	1259	1259
		27	3927	2834	3287	2507	2545	2148	1818	1818	1543	1543
		29	3906	3119	3271	2798	2533	2455	2081	2081	1813	1813
		31	3894	3392	3263	3074	2529	2529	2338	2338	2075	2075
	21	21	4862	1985	4240	1672	3541	1347	2724	989	1596	549
		23	4895	2289	4277	1977	3585	1647	2777	1300	1686	867
		25	4871	2579	4256	2271	3567	1948	2767	1596	1680	1172
		27	4840	2860	4230	2552	3545	2233	2748	1888	1665	1465
		29	4874	3138	4268	2831	3590	2515	2801	2175	1749	1749
		31	4776	3409	4172	3105	3495	2788	2705	2448	2075	2075
	23	23	5830	2283	5227	1979	4564	1670	3820	1347	2947	991
		25	5862	2583	5265	2281	4607	1966	3870	1645	3008	1294
		27	5544	2867	4945	2566	4285	2256	3540	1933	2643	1569
		29	5831	3146	5241	2848	4593	2544	3865	2229	3016	1888
		31	5745	3421	5158	3123	4512	2819	3788	2504	2939	2165

COOLING POWER (STANDARD BATTERY 450)

FCZI450			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	3178	2436	2539	2105	1835	2440	1368	1368	1063	1063
		23	3159	2745	2524	2415	1959	1959	1661	1661	1362	1362
		25	3145	3051	2516	2722	2244	2244	1949	1949	1654	1654
		27	3099	3099	2815	3074	2524	2524	2233	2233	1941	1941
		29	3381	3381	3091	3375	2802	2802	2512	2512	2223	2223
		31	3651	3651	3363	3673	3076	3076	2788	2788	2501	2501
	17	21	4000	2438	3371	2111	2690	1780	1934	1441	1009	1009
		23	4021	2745	3398	2423	2721	2094	1970	1757	1362	1362
		25	3993	3051	3371	2729	2700	2404	1953	1953	1654	1654
		27	3979	3354	3363	3034	2694	2694	2233	2233	1941	1941
		29	3929	3651	3317	3333	2802	2802	2512	2512	2223	2223
		31	3908	3908	3363	3673	3076	3076	2788	2788	2501	2501
	19	21	4973	2425	4351	2105	3680	1780	2951	1443	2140	1106
		23	4946	2743	4326	2423	3661	2101	2935	1776	2128	1431
		25	4923	3049	4307	2731	3645	2410	2923	2086	2123	1751
		27	4896	3352	4282	3034	3624	2716	2906	2389	2109	2109
		29	4909	3675	4257	3335	3603	3019	2891	2697	2223	2223
		31	4888	3968	4241	3633	3591	3316	2883	2883	2501	2501
	21	21	5915	2404	5295	2084	4631	1764	3911	1441	3126	1115
		23	5986	2754	5326	2413	4666	2094	3952	1766	3172	1441
		25	5953	3068	5299	2729	4641	2413	3931	2092	3157	1761
		27	5915	3369	5262	3032	4610	2718	3904	2400	3134	2080
		29	5942	3668	5295	3333	4647	3019	3946	2705	3182	2385
		31	5830	3963	5187	3630	4543	3319	3844	3005	3084	2686
	23	23	7001	2729	6345	2391	5687	2075	4979	1757	4211	1439
		25	7030	3051	6378	2716	5723	2402	5021	2078	4259	1759
		27	6675	3365	6026	3030	5376	2716	4676	2402	3915	2084
		29	6941	3639	6339	3329	5695	3017	4998	2705	4245	2391
5	15	31	6843	3934	6245	3626	5602	3316	4911	3007	4162	2693
		21	2900	2288	2177	1926	1561	1561	1249	1249	919	919
		23	2885	2600	2165	2238	1862	1862	1557	1557	1245	1245
		25	2875	2875	2453	2678	2155	2155	1856	1856	1553	1553
		27	3030	3030	2736	2988	2443	2443	2148	2148	1849	1849
		29	3306	3306	3016	3293	2725	2725	2433	2433	2138	2138
	17	31	3580	3580	3290	3592	3003	3003	2713	2713	2422	2422
		21	3757	2307	3076	1966	2298	1601	1274	1163	919	919
		23	3782	2619	3107	2280	2339	1919	1557	1557	1245	1245
		25	3755	2927	3084	2587	2319	2229	1856	1856	1553	1553
		27	3746	3230	3078	2893	2443	2443	2148	2148	1849	1849
		29	3697	3529	3033	3192	2725	2725	2433	2433	2138	2138
	19	31	3678	3678	3290	3592	3003	3003	2713	2713	2422	2422
		21	4755	2309	4095	1978	3369	1629	2539	1271	1476	847
		23	4730	2630	4074	2299	3352	1960	2530	1603	1470	1174
		25	4708	2937	4058	2608	3340	2271	2522	1915	1470	1470
		27	4683	3238	4035	2908	3321	2568	2509	2204	1849	1849
		29	4658	3540	4014	3215	3304	2880	2495	2495	2138	2138
	21	31	4639	3837	4000	3512	3296	3182	2713	2713	2422	2422
		21	5712	2297	5064	1970	4357	1639	3576	1300	2667	925
		23	5741	2625	5098	2301	4398	1964	3624	1625	2738	1268
		25	5712	2939	5073	2617	4377	2290	3607	1947	2727	1591
		27	5675	3243	5040	2922	4348	2598	3582	2263	2707	1911
		29	5708	3544	5077	3224	4390	2901	3632	2571	2765	2221
	23	31	5598	3841	4969	3523	4286	3201	3529	2870	2663	2520
		23	6769	2606	6133	2286	5444	1964	4691	1635	3857	1289
		25	6802	2931	6169	2613	5484	2284	4739	1957	3913	1622
		27	6447	3243	5816	2927	5133	2604	4386	2278	3555	1934
		29	6762	3544	6136	3228	5461	2910	4724	2590	3910	2257
		31	6663	3839	6042	3527	5370	3211	4637	2889	3825	2560
7	15	21	2476	2071	1480	1601	1414	1414	1032	1032	436	436
		23	2462	2383	2049	2221	1737	1737	1414	1414	1044	1044
		25	2649	2649	2348	2564	2044	2044	1733	1733	1411	1411
		27	2937	2937	2640	2882	2341	2341	2038	2038	1729	1729
		29	3219	3219	2925	3194	2630	2630	2333	2333	2032	2032
		31	3497	3497	3205	3500	2914	2914	2621	2621	2325	2325
	17	21	3416	2132	2619	1749	1536	1273	1032	1032	436	436
		23	3446	2446	2659	2067	1600	1599	1414	1414	1044	1044
		25	3423	2756	2638	2375	2044	2044	1733	1733	1411	1411
		27	3416	3059	2638	2682	2341	2341	2038	2038	1729	1729
		29	3369	3361	2925	3194	2630	2630	2333	2333	2032	2032
		31	3352	3352	3205	3500	2914	2914	2621	2621	2325	2325
	19	21	4463	2162	3736	1806	2887	1416	1744	950	436	436
		23	4442	2482	3719	2128	2875	1749	1739	1277	1044	1022
		25	4425	2790	3703	2438	2868	2061	1739	1599	1411	1411
		27	4402	3087	3684	2731	2852	2339	2038	2038	1729	1729
		29	4378	3397	3666	3047	2839	2674	2333	2333	2032	2032
		31	4365	3694	3657	3348	2835	2835	2621	2621	2325	2325
	21	21	5449	2162	4753	1820	3969	1466	3053	1077	1789	598
		23	5486	2493	4793	2153	4018	1793	3113	1416	1889	944
		25	5459	2809	4770	2474	3998	2122	3101	1738	1883	1277
		27	5424	3114	4741	2779	3973	2432	3080	2056	1866	1595
		29	5463	3418	4784	3083	4023	2739	3140	2368	1961	1919
		31	5353	3713	4676	3382	3917	3036	3032	2665	2325	2325
	23	23	6534	2486	5859	2155	5116	1818	4282	1466	3304	1079
		25	6571	2813	5901	2484	5164	2141	4338	1791	3371	1410
		27	6214	3123	5542	2794	4803	2457	3967	2105	2962	1709
		29	6536	3426	5874	3102	5148	2771	4332	2427	3381	2056
		31	6439	3725	5781	3401	5058	3070	4245	2726	3294	2358

COOLING POWER (STANDARD BATTERY 500-501-502)

FCZI 500-501-502			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	3348	2664	2675	2302	1933	2669	1441	1441	1120	1120
		23	3327	3003	2659	2641	2063	2063	1750	1750	1435	1435
		25	3313	3313	2650	2978	2364	2364	2053	2053	1742	1742
		27	3264	3264	2965	3362	2659	2659	2352	2352	2045	2045
		29	3561	3561	3256	3692	2951	2951	2646	2646	2341	2341
		31	3846	3846	3543	4017	3240	3240	2937	2937	2634	2634
	17	21	4213	2666	3551	2309	2833	1947	2037	1576	1063	1063
		23	4236	3003	3579	2650	2866	2291	2075	1922	1435	1435
		25	4205	3337	3551	2985	2843	2630	2057	2057	1742	1742
		27	4191	3669	3543	3319	2837	2837	2352	2352	2045	2045
		29	4138	3994	3494	3646	2951	2951	2646	2646	2341	2341
		31	4116	4116	3543	4017	3240	3240	2937	2937	2634	2634
	19	21	5238	2653	4583	2302	3876	1947	3108	1579	2254	1210
		23	5209	3001	4557	2650	3856	2298	3091	1943	2242	1565
		25	5185	3335	4537	2987	3839	2637	3079	2282	2236	1915
		27	5157	3667	4510	3319	3817	2971	3061	2613	2222	2222
		29	5171	4019	4484	3648	3795	3303	3045	2950	2341	2341
		31	5148	4340	4467	3973	3783	3628	3037	3037	2634	2634
	21	21	6230	2630	5577	2279	4878	1929	4120	1576	3293	1219
		23	6305	3012	5610	2639	4915	2291	4163	1931	3341	1576
		25	6270	3356	5581	2985	4888	2639	4140	2289	3325	1927
		27	6230	3685	5543	3316	4856	2973	4112	2625	3301	2275
		29	6258	4012	5577	3646	4894	3303	4157	2959	3352	2609
		31	6140	4335	5463	3971	4785	3630	4049	3286	3248	2938
	23	23	7374	2985	6683	2616	5990	2270	5244	1922	4435	1574
		25	7404	3337	6717	2971	6028	2627	5289	2272	4486	1924
		27	7030	3681	6348	3314	5663	2971	4925	2627	4124	2279
		29	7311	3980	6677	3641	5998	3300	5264	2959	4472	2616
		31	7207	4303	6577	3966	5900	3628	5173	3289	4384	2945
		31										
5	15	21	3055	2503	2293	2106	1644	1644	1315	1315	967	967
		23	3039	2844	2280	2448	1961	1961	1640	1640	1311	1311
		25	3028	3028	2583	2929	2270	2270	1955	1955	1636	1636
		27	3191	3191	2882	3268	2573	2573	2262	2262	1947	1947
		29	3482	3482	3177	3602	2870	2870	2563	2563	2252	2252
		31	3770	3770	3465	3929	3163	3163	2858	2858	2551	2551
	17	21	3957	2524	3240	2150	2421	1752	1341	1272	967	967
		23	3984	2865	3272	2494	2463	2100	1640	1640	1311	1311
		25	3955	3201	3248	2830	2443	2438	1955	1955	1636	1636
		27	3945	3533	3242	3164	2573	2573	2262	2262	1947	1947
		29	3894	3860	3195	3492	2870	2870	2563	2563	2252	2252
		31	3874	3874	3465	3929	3163	3163	2858	2858	2551	2551
	19	21	5008	2526	4313	2164	3549	1781	2675	1390	1555	926
		23	4982	2876	4291	2514	3530	2143	2665	1754	1549	1284
		25	4959	3213	4274	2853	3518	2484	2657	2095	1549	1549
		27	4933	3542	4250	3180	3498	2809	2642	2411	1947	1947
		29	4907	3872	4228	3517	3480	3150	2628	2628	2252	2252
		31	4886	4197	4213	3842	3472	3472	2858	2858	2551	2551
	21	21	6016	2512	5333	2155	4589	1793	3766	1422	2809	1012
		23	6047	2872	5370	2517	4632	2148	3817	1777	2884	1387
		25	6016	3215	5343	2862	4610	2505	3799	2129	2872	1740
		27	5978	3547	5309	3197	4579	2842	3772	2475	2852	2090
		29	6012	3876	5348	3526	4624	3173	3825	2812	2913	2429
		31	5896	4201	5234	3853	4514	3501	3717	3139	2805	2756
	23	23	7130	2851	6459	2501	5734	2148	4941	1788	4063	1410
		25	7165	3206	6498	2858	5776	2498	4992	2141	4122	1775
		27	6791	3547	6126	3201	5407	2849	4620	2491	3744	2116
		29	7122	3876	6463	3531	5752	3183	4976	2832	4118	2468
		31	7018	4199	6364	3858	5657	3512	4884	3160	4028	2800
		31										
7	15	21	2608	2265	1559	1752	1490	1490	1087	1087	459	459
		23	2593	2593	2159	2429	1829	1829	1490	1490	1100	1100
		25	2791	2791	2474	2805	2152	2152	1825	1825	1486	1486
		27	3093	3093	2780	3153	2465	2465	2146	2146	1821	1821
		29	3390	3390	3081	3494	2770	2770	2457	2457	2140	2140
		31	3683	3683	3376	3828	3069	3069	2760	2760	2449	2449
	17	21	3598	2332	2758	1913	1618	1392	1087	1087	459	459
		23	3630	2676	2801	2261	1685	1685	1490	1490	1100	1100
		25	3606	3014	2778	2597	2152	2152	1825	1825	1486	1486
		27	3598	3346	2778	2934	2465	2465	2146	2146	1821	1821
		29	3549	3549	3081	3494	2770	2770	2457	2457	2140	2140
		31	3530	3530	3376	3828	3069	3069	2760	2760	2449	2449
	19	21	4701	2365	3935	1975	3041	1549	1837	1039	459	459
		23	4679	2715	3917	2328	3028	1913	1831	1397	1100	1100
		25	4661	3051	3900	2666	3020	2254	1831	1749	1486	1486
		27	4636	3376	3880	2987	3004	2558	2146	2146	1821	1821
		29	4612	3715	3862	3333	2990	2925	2457	2457	2140	2140
		31	4598	4040	3852	3662	2986	2986	2760	2760	2449	2449
	21	21	5740	2365	5006	1991	4181	1604	3215	1178	1884	655
		23	5778	2726	5049	2355	4232	1961	3278	1549	1990	1032
		25	5750	3072	5024	2706	4211	2321	3266	1901	1984	1397
		27	5713	3406	4994	3040	4185	2660	3244	2249	1965	1745
		29	5754	3738	5039	3372	4238	2996	3307	2590	2065	2065
		31	5638	4061	4925	3699	4126	3321	3193	2915	2449	2449
	23	23	6882	2719	6171	2358	5388	1989	4510	1604	3480	1180
		25	6921	3077	6215	2717	5439	2342	4569	1959	3551	1542
		27	6545	3415	5837	3056	5059	2687	4179	2302	3120	1869
		29	6884	3747	6187	3392	5423	3031	4563	2655	3561	2249
		31	6783	4075	6089	3720	5327	3358	4472	2982	3470	2579
		31										

COOLING POWER (STANDARD BATTERY 550)

FCZI 550			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
°C	°C	°C	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	3777	2924	3018	2526	2181	2929	1626	1626	1264	1264
		23	3754	3295	2999	2898	2328	2328	1974	1974	1619	1619
		25	3738	3662	2990	3267	2667	2667	2316	2316	1965	1965
		27	3683	3683	3346	3690	2999	2999	2653	2653	2307	2307
		29	4018	4018	3674	4051	3330	3330	2986	2986	2642	2642
		31	4339	4339	3997	4408	3655	3655	3314	3314	2972	2972
	17	21	4754	2926	4006	2534	3197	2137	2298	1730	1199	1199
		23	4779	3295	4038	2908	3233	2514	2341	2109	1619	1619
		25	4745	3662	4006	3275	3208	2886	2321	2321	1965	1965
		27	4728	4026	3997	3642	3201	3201	2653	2653	2307	2307
		29	4669	4383	3942	4001	3330	3330	2986	2986	2642	2642
		31	4644	4644	3997	4408	3655	3655	3314	3314	2972	2972
	19	21	5909	2911	5171	2526	4373	2137	3506	1732	2543	1328
		23	5877	3293	5141	2908	4350	2521	3488	2132	2529	1717
		25	5850	3659	5118	3278	4332	2893	3474	2504	2522	2102
		27	5818	4024	5089	3642	4307	3260	3454	2868	2506	2506
		29	5834	4411	5059	4003	4281	3624	3435	3237	2642	2642
		31	5809	4762	5040	4360	4268	3981	3426	3426	2972	2972
	21	21	7029	2886	6292	2501	5504	2117	4648	1730	3715	1338
		23	7113	3305	6329	2896	5545	2514	4696	2119	3770	1730
		25	7074	3682	6297	3275	5515	2896	4671	2511	3752	2114
		27	7029	4044	6253	3639	5478	3262	4639	2881	3724	2496
		29	7061	4403	6292	4001	5522	3624	4690	3247	3781	2863
		31	6928	4757	6164	4357	5398	3983	4568	3606	3664	3224
	23	23	8320	3275	7540	2870	6758	2491	5916	2109	5004	1727
		25	8354	3662	7579	3260	6802	2883	5967	2494	5061	2112
		27	7932	4039	7162	3637	6389	3260	5556	2883	4653	2501
		29	8249	4368	7533	3996	6767	3622	5939	3247	5045	2870
		31	8132	4722	7421	4352	6657	3981	5836	3609	4946	3232
		31										
5	15	21	3447	2746	2587	2311	1855	1855	1484	1484	1092	1092
		23	3428	3121	2573	2686	2213	2213	1851	1851	1479	1479
		25	3417	3417	2915	3214	2561	2561	2206	2206	1846	1846
		27	3600	3600	3252	3586	2903	2903	2552	2552	2197	2197
		29	3928	3928	3584	3953	3238	3238	2892	2892	2541	2541
		31	4254	4254	3910	4312	3568	3568	3224	3224	2878	2878
	17	21	4465	2769	3655	2360	2731	1922	1513	1396	1092	1092
		23	4495	3144	3692	2736	2779	2304	1851	1851	1479	1479
		25	4462	3513	3664	3106	2756	2676	2206	2206	1846	1846
		27	4451	3877	3658	3472	2903	2903	2552	2552	2197	2197
		29	4394	4236	3605	3831	3238	3238	2892	2892	2541	2541
		31	4371	4371	3910	4312	3568	3568	3224	3224	2878	2878
	19	21	5650	2772	4866	2375	4004	1955	3018	1525	1754	1017
		23	5621	3156	4841	2759	3983	2352	3006	1925	1747	1409
		25	5595	3525	4823	3131	3969	2726	2997	2299	1747	1747
		27	5566	3887	4795	3490	3947	3083	2981	2645	2197	2197
		29	5536	4249	4770	3859	3926	3457	2965	2965	2541	2541
		31	5513	4605	4754	4216	3917	3819	3224	3224	2878	2878
	21	21	6788	2757	6017	2365	5178	1968	4249	1560	3169	1110
		23	6822	3151	6059	2762	5226	2357	4307	1950	3254	1522
		25	6788	3528	6029	3141	5201	2749	4286	2337	3240	1909
		27	6744	3892	5990	3508	5166	3118	4256	2716	3217	2294
		29	6783	4254	6033	3869	5217	3482	4316	3085	3286	2666
		31	6652	4610	5905	4228	5093	3842	4194	3444	3165	3025
	23	23	8044	3128	7288	2744	6469	2357	5575	1962	4584	1548
		25	8083	3518	7331	3136	6517	2741	5632	2349	4651	1947
		27	7661	3892	6912	3513	6100	3126	5212	2734	4224	2322
		29	8035	4254	7292	3874	6490	3493	5614	3108	4646	2709
		31	7918	4608	7180	4234	6382	3854	5510	3467	4545	3073
		31										
7	15	21	2942	2486	1759	1922	1681	1681	1227	1227	518	518
		23	2926	2860	2435	2666	2064	2064	1681	1681	1241	1241
		25	3149	3149	2791	3078	2428	2428	2059	2059	1676	1676
		27	3490	3490	3137	3460	2782	2782	2422	2422	2055	2055
		29	3825	3825	3476	3834	3126	3126	2772	2772	2415	2415
		31	4155	4155	3809	4201	3463	3463	3114	3114	2763	2763
	17	21	4059	2559	3112	2099	1825	1528	1227	1227	518	518
		23	4096	2936	3160	2481	1901	1901	1681	1681	1241	1241
		25	4068	3308	3135	2850	2428	2428	2059	2059	1676	1676
		27	4059	3672	3135	3219	2782	2782	2422	2422	2055	2055
		29	4004	4004	3476	3834	3126	3126	2772	2772	2415	2415
		31	3983	3983	3809	4201	3463	3463	3114	3114	2763	2763
	19	21	5304	2595	4440	2167	3431	1699	2073	1141	518	518
		23	5279	2979	4419	2554	3417	2099	2066	1533	1241	1227
		25	5258	3348	4401	2926	3408	2473	2066	1920	1676	1676
		27	5231	3705	4378	3278	3389	2807	2422	2422	2055	2055
		29	5203	4077	4357	3657	3373	3209	2772	2772	2415	2415
		31	5187	4433	4346	4019	3369	3369	3114	3114	2763	2763
	21	21	6476	2595	5648	2185	4717	1760	3628	1292	2126	718
		23	6519	2992	5696	2585	4774	2152	3699	1699	2245	1133
		25	6487	3371	5669	2969	4751	2547	3685	2086	2238	1533
		27	6446	3738	5634	3336	4722	2918	3660	2468	2217	1914
		29	6492	4102	5685	3700	4781	3288	3731	2843	2330	2304
		31	6361	4456	5556	4059	4655	3644	3603	3199	2763	2763
	23	23	7765	2984	6962	2587	6079	2183	5089	1760	3926	1295
		25	7808	3376	7012	2982	6136	2569	5155	2150	4006	1692
		27	7384	3748	6586	3353	5708	2949	4715	2526	3520	2051
		29	7767	4112	6980	3723	6118	3326	5148	2913	4018	2468
		31	7652	4471	6870	4082	6010	3685	5045	3273	3914	2830
		31										

COOLING POWER (STANDARD BATTERY 700-701-702)

FCZI 700-701-702			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	4332	3606	3462	3116	2501	3613	1865	1865	1449	1449
		23	4306	4065	3440	3575	2670	2670	2265	2265	1857	1857
		25	4287	4287	3430	4030	3059	3059	2657	2657	2254	2254
		27	4224	4224	3838	4551	3440	3440	3043	3043	2646	2646
		29	4608	4608	4214	4998	3819	3819	3425	3425	3030	3030
		31	4977	4977	4585	5437	4193	4193	3801	3801	3409	3409
	17	21	5453	3609	4595	3126	3667	2636	2636	2134	1376	1376
		23	5482	4065	4632	3588	3709	3101	2686	2602	1857	1857
		25	5442	4517	4595	4040	3680	3559	2662	2662	2254	2254
		27	5424	4966	4585	4492	3672	3672	3043	3043	2646	2646
		29	5355	5355	4522	4935	3819	3819	3425	3425	3030	3030
		31	5326	5326	4585	5437	4193	4193	3801	3801	3409	3409
	19	21	6778	3591	5931	3116	5016	2636	4022	2137	2917	1638
		23	6742	4062	5897	3588	4990	3110	4001	2630	2901	2118
		25	6710	4514	5871	4043	4969	3569	3985	3088	2893	2592
		27	6673	4963	5837	4492	4940	4021	3961	3538	2875	2875
		29	6692	5441	5802	4938	4911	4470	3940	3940	3030	3030
		31	6663	5874	5781	5378	4895	4895	3930	3930	3409	3409
	21	21	8062	3559	7218	3085	6313	2611	5332	2134	4261	1650
		23	8159	4077	7260	3572	6360	3101	5387	2614	4324	2134
		25	8115	4542	7223	4040	6326	3572	5358	3098	4303	2608
		27	8062	4988	7173	4489	6284	4024	5321	3553	4272	3079
		29	8099	5431	7218	4935	6334	4470	5379	4006	4337	3531
		31	7946	5868	7070	5375	6192	4913	5240	4449	4203	3977
	23	23	9543	4040	8648	3541	7752	3073	6786	2602	5739	2131
		25	9582	4517	8693	4021	7802	3556	6844	3076	5805	2605
		27	9098	4982	8214	4486	7328	4021	6373	3556	5337	3085
		29	9461	5387	8641	4929	7762	4467	6813	4006	5787	3541
		31	9327	5824	8512	5369	7636	4910	6694	4452	5674	3987
5	15	21	3953	3388	2967	2851	2128	2128	1702	1702	1252	1252
		23	3932	3850	2951	3313	2538	2538	2123	2123	1697	1697
		25	3919	3919	3343	3965	2938	2938	2530	2530	2117	2117
		27	4130	4130	3730	4424	3330	3330	2928	2928	2520	2520
		29	4506	4506	4111	4876	3714	3714	3317	3317	2914	2914
		31	4879	4879	4485	5319	4093	4093	3698	3698	3301	3301
	17	21	5121	3416	4193	2911	3133	2371	1736	1722	1252	1252
		23	5155	3878	4235	3375	3188	2842	2123	2123	1697	1697
		25	5119	4333	4203	3831	3162	3162	2530	2530	2117	2117
		27	5105	4782	4195	4283	3330	3330	2928	2928	2520	2520
		29	5040	5040	4135	4726	3714	3714	3317	3317	2914	2914
		31	5013	5013	4485	5319	4093	4093	3698	3698	3301	3301
	19	21	6481	3419	5582	2929	4593	2411	3462	1881	2012	1254
		23	6447	3893	5553	3403	4569	2901	3448	2374	2004	1738
		25	6418	4349	5532	3862	4553	3363	3438	2836	2004	2004
		27	6384	4795	5500	4305	4527	3803	3419	3263	2520	2520
		29	6350	5241	5471	4760	4503	4264	3401	3401	2914	2914
		31	6323	5681	5453	5200	4493	4493	3698	3698	3301	3301
	21	21	7786	3400	6902	2917	5939	2427	4874	1925	3635	1369
		23	7825	3887	6949	3407	5995	2907	4940	2405	3732	1878
		25	7786	4352	6915	3875	5966	3391	4916	2882	3717	2355
		27	7736	4801	6870	4327	5926	3846	4882	3350	3690	2829
		29	7780	5247	6920	4773	5984	4296	4950	3806	3769	3288
		31	7631	5687	6773	5216	5842	4739	4811	4249	3630	3630
	23	23	9227	3859	8359	3385	7420	2907	6394	2421	5258	1909
		25	9272	4339	8409	3868	7475	3382	6460	2898	5334	2402
		27	8788	4801	7928	4333	6997	3856	5979	3372	4845	2864
		29	9217	5247	8364	4779	7444	4308	6439	3834	5329	3341
		31	9082	5684	8236	5222	7320	4754	6321	4277	5213	3790
7	15	21	3375	3067	2017	2371	1928	1928	1407	1407	594	594
		23	3356	3356	2793	3288	2367	2367	1928	1928	1423	1423
		25	3611	3611	3201	3797	2786	2786	2362	2362	1923	1923
		27	4003	4003	3598	4268	3191	3191	2778	2778	2357	2357
		29	4387	4387	3988	4729	3585	3585	3180	3180	2770	2770
		31	4766	4766	4369	5182	3972	3972	3572	3572	3170	3170
	17	21	4656	3157	3569	2589	2094	1884	1407	1407	594	594
		23	4698	3622	3625	3060	2181	2181	1928	1928	1423	1423
		25	4666	4080	3596	3516	2786	2786	2362	2362	1923	1923
		27	4656	4530	3596	3971	3191	3191	2778	2778	2357	2357
		29	4593	4593	3988	4729	3585	3585	3180	3180	2770	2770
		31	4569	4569	4369	5182	3972	3972	3572	3572	3170	3170
	19	21	6084	3201	5092	2673	3935	2096	2378	1407	594	594
		23	6055	3675	5069	3151	3919	2589	2370	1890	1423	1423
		25	6031	4130	5048	3609	3909	3051	2370	2368	1923	1923
		27	6000	4570	5021	4043	3888	3463	2778	2778	2357	2357
		29	5968	5029	4998	4511	3869	3869	3180	3180	2770	2770
		31	5950	5469	4984	4957	3864	3864	3572	3572	3170	3170
	21	21	7428	3201	6478	2695	5411	2171	4161	1594	2438	886
		23	7478	3690	6534	3188	5476	2655	4243	2096	2575	1398
		25	7441	4158	6502	3662	5450	3141	4227	2574	2567	1890
		27	7394	4611	6463	4115	5416	3600	4198	3045	2544	2362
		29	7446	5060	6521	4564	5484	4055	4280	3506	2672	2672
		31	7297	5497	6373	5007	5340	4495	4132	3946	3170	3170
	23	23	8906	3681	7986	3191	6973	2692	5837	2171	4503	1597
		25	8956	4165	8044	3678	7039	3169	5913	2652	4595	2087
		27	8470	4623	7554	4137	6547	3637	5408	3116	4038	2530
		29	8909	5072	8007	4592	7018	4102	5905	3594	4608	3045
		31	8777	5515	7880	5035	6894	4545	5787	4037	4490	3491

COOLING POWER (STANDARD BATTERY 750)

FCZI 750			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
°C	°C	°C	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	4837	3954	3865	3417	2793	3962	2082	2082	1618	1618
		23	4807	4457	3841	3920	2981	2981	2528	2528	2073	2073
		25	4787	4787	3829	4419	3415	3415	2966	2966	2517	2517
		27	4716	4716	4285	4990	3841	3841	3398	3398	2954	2954
		29	5145	5145	4704	5479	4264	4264	3823	3823	3383	3383
		31	5556	5556	5119	5962	4681	4681	4243	4243	3806	3806
	17	21	6088	3957	5130	3427	4094	2890	2942	2340	1536	1536
		23	6120	4457	5171	3933	4141	3400	2998	2853	2073	2073
		25	6076	4953	5130	4429	4108	3903	2972	2972	2517	2517
		27	6055	5445	5119	4925	4100	4100	3398	3398	2954	2954
		29	5979	5928	5048	5411	4264	4264	3823	3823	3383	3383
		31	5947	5947	5119	5962	4681	4681	4243	4243	3806	3806
	19	21	7568	3937	6622	3417	5600	2890	4490	2343	3257	1796
		23	7527	4453	6584	3933	5571	3410	4467	2883	3239	2322
		25	7491	4949	6555	4433	5547	3913	4449	3386	3230	2842
		27	7450	5442	6516	4925	5515	4409	4423	3879	3210	3210
		29	7471	5965	6478	5415	5483	4901	4399	4378	3383	3383
		31	7438	6441	6455	5897	5465	5384	4387	4387	3806	3806
	21	21	9001	3903	8058	3383	7048	2863	5953	2340	4757	1809
		23	9109	4470	8105	3916	7101	3400	6014	2866	4828	2340
		25	9059	4980	8064	4429	7063	3916	5982	3396	4804	2859
		27	9001	5469	8008	4922	7016	4412	5941	3896	4769	3376
		29	9042	5955	8058	5411	7071	4901	6005	4392	4842	3872
		31	8872	6434	7894	5893	6913	5387	5850	4877	4693	4361
	23	23	10654	4429	9656	3882	8654	3369	7576	2853	6408	2336
		25	10698	4953	9706	4409	8710	3899	7641	3373	6481	2856
		27	10158	5462	9171	4919	8181	4409	7115	3899	5958	3383
		29	10563	5907	9647	5404	8666	4898	7606	4392	6461	3882
		31	10413	6386	9503	5887	8525	5384	7474	4881	6334	4371
		31	10413	6386	9503	5887	8525	5384	7474	4881	6334	4371
5	15	21	4414	3715	3313	3126	2376	2376	1900	1900	1398	1398
		23	4390	4221	3295	3632	2834	2834	2370	2370	1894	1894
		25	4376	4376	3732	4347	3280	3280	2825	2825	2364	2364
		27	4610	4610	4164	4850	3718	3718	3268	3268	2813	2813
		29	5030	5030	4590	5346	4147	4147	3703	3703	3254	3254
		31	5447	5447	5007	5832	4569	4569	4129	4129	3685	3685
	17	21	5718	3745	4681	3191	3498	2600	1938	1888	1398	1398
		23	5756	4252	4728	3701	3559	3116	2370	2370	1894	1894
		25	5715	4751	4693	4200	3530	3530	2825	2825	2364	2364
		27	5700	5243	4684	4696	3718	3718	3268	3268	2813	2813
		29	5627	5627	4616	5182	4147	4147	3703	3703	3254	3254
		31	5597	5597	5007	5832	4569	4569	4129	4129	3685	3685
	19	21	7236	3749	6232	3212	5127	2644	3865	2063	2247	1375
		23	7198	4269	6199	3732	5101	3181	3850	2603	2238	1905
		25	7165	4768	6176	4234	5083	3687	3838	3109	2238	2238
		27	7127	5257	6140	4720	5054	4169	3818	3578	2813	2813
		29	7089	5746	6108	5220	5028	4676	3797	3797	3254	3254
		31	7060	6229	6088	5702	5016	5016	4129	4129	3685	3685
	21	21	8692	3728	7706	3198	6631	2661	5442	2110	4058	1502
		23	8736	4262	7759	3735	6693	3188	5515	2637	4167	2059
		25	8692	4771	7720	4248	6660	3718	5489	3160	4149	2582
		27	8637	5264	7670	4744	6616	4217	5450	3674	4120	3102
		29	8687	5753	7726	5233	6681	4710	5527	4173	4208	3605
		31	8519	6235	7562	5719	6522	5196	5371	4659	4053	4053
	23	23	10302	4231	9333	3711	8284	3188	7139	2654	5870	2093
		25	10352	4758	9388	4241	8346	3708	7212	3178	5955	2634
		27	9811	5264	8851	4751	7811	4228	6675	3697	5409	3140
		29	10290	5753	9338	5240	8311	4724	7189	4204	5950	3663
		31	10140	6232	9195	5726	8173	5213	7057	4689	5820	4156
		31	10140	6232	9195	5726	8173	5213	7057	4689	5820	4156
7	15	21	3768	3362	2252	2600	2153	2153	1571	1571	664	664
		23	3747	3747	3119	3605	2643	2643	2153	2153	1589	1589
		25	4032	4032	3574	4163	3110	3110	2637	2637	2147	2147
		27	4470	4470	4017	4679	3562	3562	3101	3101	2631	2631
		29	4898	4898	4452	5185	4003	4003	3550	3550	3092	3092
		31	5321	5321	4878	5681	4434	4434	3988	3988	3539	3539
	17	21	5198	3461	3985	2839	2338	2066	1571	1571	664	664
		23	5245	3971	4047	3355	2434	2434	2153	2153	1589	1589
		25	5210	4474	4014	3855	3110	3110	2637	2637	2147	2147
		27	5198	4966	4014	4354	3562	3562	3101	3101	2631	2631
		29	5127	5127	4452	5185	4003	4003	3550	3550	3092	3092
		31	5101	5101	4878	5681	4434	4434	3988	3988	3539	3539
	19	21	6792	3509	5685	2931	4393	2299	2655	1543	664	664
		23	6760	4029	5659	3455	4376	2839	2646	2073	1589	1589
		25	6734	4529	5635	3957	4364	3345	2646	2596	2147	2147
		27	6698	5011	5606	4433	4340	3797	3101	3101	2631	2631
		29	6663	5514	5580	4946	4320	4320	3550	3550	3092	3092
		31	6643	5996	5565	5435	4314	4314	3988	3988	3539	3539
	21	21	8293	3509	7233	2955	6041	2381	4646	1748	2722	971
		23	8349	4046	7295	3496	6114	2911	4737	2299	2875	1532
		25	8308	4559	7259	4016	6085	3444	4719	2822	2866	2073
		27	8255	5055	7215	4512	6047	3947	4687	3338	2840	2589
		29	8314	5548	7280	5004	6123	4447	4778	3845	2984	2984
		31	8146	6027	7115	5490	5961	4929	4613	4327	3539	3539
	23	23	9943	4036	8916	3499	7785	2952	6516	2381	5028	1751
		25	9999	4566	8980	4033	7858	3475	6602	2907	5130	2288
		27	9456	5069	8434	4535	7309	3988	6038	3417	4508	2774
		29	9946	5562	8939	5035	7835	4498	6593	3940	5145	3338
		31	9800	6047	8798	5521	7697	4984	6461	4426	5013	3827
		31	9800	6047	8798	5521	7697	4984	6461	4426	5013	3827

COOLING POWER (STANDARD BATTERY (900-901))

FCZI 900-901			Tw(in) = 5°C		Tw(in) = 7°C		Tw(in) = 9°C		Tw(in) = 11°C		Tw(in) = 13°C	
Dt w	Tbu	Tbs	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps	Pc	Ps
[°C]	[°C]	[°C]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]	[W]
3	15	21	5443	4758	4349	4112	3143	4767	2343	2343	1821	1821
		23	5410	5363	4322	4717	3354	3354	2845	2845	2333	2333
		25	5387	5387	4309	5318	3843	3843	3338	3338	2832	2832
		27	5307	5307	4821	6005	4322	4322	3823	3823	3324	3324
		29	5790	5790	5294	6594	4798	4798	4303	4303	3807	3807
		31	6252	6252	5760	7174	5268	5268	4775	4775	4283	4283
	17	21	6851	4762	5773	4124	4607	3478	3311	2815	1728	1728
		23	6887	5363	5819	4733	4660	4091	3374	3374	2333	2333
		25	6837	5960	5773	5330	4623	4623	3344	3344	2832	2832
		27	6814	6553	5760	5927	4613	4613	3823	3823	3324	3324
		29	6728	6728	5681	6511	4798	4798	4303	4303	3807	3807
		31	6692	6692	5760	7174	5268	5268	4775	4775	4283	4283
	19	21	8516	4737	7452	4112	6302	3478	5053	2819	3665	2161
		23	8470	5359	7409	4733	6269	4104	5026	3470	3645	2795
		25	8430	5956	7376	5334	6242	4709	5007	4075	3635	3420
		27	8384	6548	7333	5927	6206	5305	4977	4667	3612	3612
		29	8407	7178	7290	6516	6170	5898	4950	4950	3807	3807
		31	8371	7750	7264	7096	6150	6150	4937	4937	4283	4283
	21	21	10129	4696	9068	4071	7931	3445	6699	2815	5354	2177
		23	10251	5380	9121	4713	7991	4091	6768	3449	5433	2815
		25	10195	5993	9075	5330	7948	4713	6732	4087	5406	3441
		27	10129	6581	9012	5923	7895	5310	6685	4688	5367	4062
		29	10175	7166	9068	6511	7958	5898	6758	5285	5449	4659
		31	9983	7742	8883	7092	7779	6483	6583	5869	5281	5248
	23	23	11989	5330	10866	4672	9739	4054	8526	3433	7211	2811
		25	12039	5960	10922	5305	9802	4692	8599	4058	7293	3437
		27	11431	6573	10320	5919	9207	5305	8007	4692	6705	4071
		29	11887	7108	10856	6503	9752	5894	8559	5285	7270	4672
31		11718	7684	10694	7084	9593	6478	8410	5873	7128	5260	
5		15	21	4967	4470	3728	3762	2673	2673	2138	2138	1573
	23		4940	4940	3708	4371	3189	3189	2667	2667	2131	2131
	25		4924	4924	4200	5231	3691	3691	3179	3179	2660	2660
	27		5188	5188	4686	5836	4184	4184	3678	3678	3166	3166
	29		5661	5661	5165	6433	4666	4666	4167	4167	3662	3662
	31		6130	6130	5634	7018	5142	5142	4646	4646	4147	4147
	17	21	6434	4507	5268	3840	3936	3128	2181	2181	1573	1573
		23	6477	5116	5320	4453	4005	3750	2667	2667	2131	2131
		25	6431	5717	5281	5054	3972	3972	3179	3179	2660	2660
		27	6414	6310	5271	5651	4184	4184	3678	3678	3166	3166
		29	6332	6332	5195	6236	4666	4666	4167	4167	3662	3662
		31	6299	6299	5634	7018	5142	5142	4646	4646	4147	4147
	19	21	8143	4511	7012	3865	5770	3182	4349	2482	2528	1655
		23	8100	5137	6976	4490	5740	3828	4332	3132	2518	2293
		25	8063	5738	6950	5096	5720	4437	4319	3741	2518	2518
		27	8020	6326	6910	5680	5687	5017	4296	4296	3166	3166
		29	7977	6915	6874	6281	5658	5626	4273	4273	3662	3662
		31	7944	7495	6851	6861	5644	5644	4646	4646	4147	4147
	21	21	9782	4486	8671	3848	7462	3202	6123	2540	4567	1807
		23	9831	5128	8731	4495	7531	3836	6206	3173	4689	2478
		25	9782	5742	8688	5112	7495	4474	6176	3803	4669	3108
		27	9719	6334	8632	5709	7445	5075	6133	4421	4636	3733
		29	9775	6923	8695	6297	7518	5668	6219	5021	4736	4338
		31	9587	7503	8509	6882	7340	6252	6044	5606	4560	4560
	23	23	11593	5091	10502	4466	9322	3836	8034	3194	6606	2519
		25	11649	5725	10565	5104	9392	4462	8116	3824	6702	3169
		27	11041	6334	9960	5717	8790	5087	7511	4449	6087	3778
		29	11579	6923	10509	6306	9352	5684	8090	5058	6695	4408
		31	11411	7499	10347	6890	9197	6273	7941	5643	6550	5001
	7	15	21	4240	4046	2535	3128	2422	2422	1768	1768	747
23			4217	4217	3510	4338	2974	2974	2422	2422	1788	1788
25			4537	4537	4022	5009	3500	3500	2968	2968	2416	2416
27			5030	5030	4521	5631	4009	4009	3490	3490	2961	2961
29			5512	5512	5010	6240	4504	4504	3995	3995	3480	3480
31			5988	5988	5489	6837	4990	4990	4488	4488	3982	3982
17		21	5849	4165	4484	3416	2630	2486	1768	1768	747	747
		23	5902	4779	4554	4038	2740	2740	2422	2422	1788	1788
		25	5862	5384	4517	4639	3500	3500	2968	2968	2416	2416
		27	5849	5849	4517	5240	4009	4009	3490	3490	2961	2961
		29	5770	5770	5010	6240	4504	4504	3995	3995	3480	3480
		31	5740	5740	5489	6837	4990	4990	4488	4488	3982	3982
19		21	7644	4223	6398	3527	4944	2766	2987	1856	747	747
		23	7607	4849	6368	4157	4924	3416	2977	2494	1788	1788
		25	7578	5450	6342	4762	4911	4025	2977	2977	2416	2416
		27	7538	6030	6309	5334	4884	4569	3490	3490	2961	2961
		29	7498	6635	6279	5952	4861	4861	3995	3995	3480	3480
		31	7475	7215	6262	6540	4855	4855	4488	4488	3982	3982
21		21	9332	4223	8139	3556	6798	2865	5228	2103	3063	1169
		23	9395	4869	8209	4206	6880	3503	5330	2766	3235	1844
		25	9349	5487	8169	4832	6847	4145	5311	3396	3225	2494
		27	9289	6083	8119	5429	6804	4750	5274	4017	3196	3116
		29	9355	6676	8192	6022	6890	5351	5377	4626	3358	3358
		31	9167	7252	8007	6606	6708	5931	5192	5192	3982	3982
23		23	11190	4857	10033	4211	8761	3552	7333	2865	5658	2107
		25	11252	5495	10106	4853	8843	4182	7429	3499	5773	2754
		27	10641	6100	9491	5458	8225	4799	6794	4112	5073	3338
		29	11193	6693	10059	6059	8817	5412	7419	4742	5790	4017
		31	11028	7277	9901	6643	8661	5997	7270	5326	5641	4606

HEATING POWER (MODELS WITH STANDARD BATTERY)

The heating power yielded by the coils (standard or larger) are stated in table format and are referred to the maximum speed, based on the water flow and on the difference of temperature between water entering and air entering. The performances at medium and minimum speed may be displayed through the selection software.

NB: The yield values marked in bold indicate the nominal value.

Key:

Tw [°C] = Inlet water temperature.

Ta B.S. [°C] = Inlet air temperature with dry bulb.

Ph [w] = Heating power yielded.

H = maximum speed.

M = medium speed.

L = minimum speed.

The cooling capacities of the table must be multiplied by the following corrective factors:

		200	250	300	350	400	450	500	550	700	750	900	950
Thermal power corrective factors	H	1	1	1	1	1	1	1	1	1	1	1	1
	M	0,80	0,78	0,81	0,80	0,80	0,80	0,86	0,85	0,89	0,90	0,88	0,84
	L	0,55	0,54	0,63	0,61	0,60	0,58	0,62	0,60	0,74	0,73	0,71	0,65

FCZI200		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	4149	3970	3793	3619	3447
	10	4054	4699	3700	3526	3352
	15	3943	3764	3587	3410	3238
60	5	3484	3307	3127	2953	2779
	10	3257	3082	2911	2739	2570
	15	3127	2953	2779	2604	2433
50	5	2573	2401	2232	2065	1902
	10	2454	2282	2110	1941	1772
	15	2298	2121	1944	1767	1590
40	5	2176	2007	1841	1675	1511
	10	2044	1875	1704	1535	1363
	15	1867	1688	1506	1318	1128
45	5	1778	1611	1447	1281	1120
	10	1632	1458	1286	1112	932
	15	1416	1223	990	644	370

FCZI250		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	4541	4345	4151	3960	3772
	10	4437	5142	4050	3859	3668
	15	4316	4119	3925	3732	3544
60	5	3813	3619	3422	3232	3041
	10	3564	3373	3185	2998	2813
	15	3422	3232	3041	2850	2662
50	5	2815	2628	2443	2260	2081
	10	2685	2497	2310	2125	1940
	15	2515	2321	2127	1934	1740
40	5	2382	2197	2015	1833	1653
	10	2237	2052	1864	1679	1492
	15	2044	1847	1648	1442	1234
45	5	1945	1763	1584	1402	1226
	10	1786	1596	1408	1217	1020
	15	1549	1338	1084	705	405

FCZI 300		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	6167	5900	5637	5378	5123
	10	6026	6984	5500	5241	4982
	15	5861	5594	5331	5068	4813
60	5	5178	4915	4648	4389	4130
	10	4840	4581	4326	4071	3820
	15	4648	4389	4130	3871	3616
50	5	3824	3569	3317	3070	2827
	10	3647	3392	3137	2885	2634
	15	3415	3152	2889	2626	2363
40	5	3235	2984	2736	2489	2246
	10	3039	2787	2532	2281	2026
	15	2776	2509	2238	1959	1676
45	5	2642	2395	2151	1904	1665
	10	2426	2167	1912	1653	1386
	15	2104	1818	1472	958	550

FCZI350		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	6896	6598	6304	6014	5729
	10	6738	7809	6150	5860	5571
	15	6554	6255	5961	5667	5382
60	5	5790	5496	5197	4908	4618
	10	5413	5123	4837	4552	4271
	15	5197	4908	4618	4328	4043
50	5	4276	3990	3709	3433	3161
	10	4078	3793	3507	3226	2946
	15	3819	3525	3231	2937	2643
40	5	3617	3336	3060	2783	2511
	10	3398	3117	2831	2550	2265
	15	3104	2805	2502	2190	1874
45	5	2954	2678	2406	2129	1861
	10	2713	2423	2138	1848	1550
	15	2353	2032	1646	1071	615

FCZI400		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	8018	7671	7329	6992	6660
	10	7834	9079	7150	6813	6476
	15	7620	7273	6931	6589	6257
60	5	6732	6390	6043	5706	5369
	10	6293	5956	5624	5292	4966
	15	6043	5706	5369	5032	4700
50	5	4971	4639	4313	3991	3675
	10	4741	4410	4078	3751	3425
	15	4440	4098	3756	3414	3072
40	5	4205	3879	3557	3236	2919
	10	3950	3624	3292	2965	2633
	15	3608	3261	2909	2547	2179
45	5	3435	3113	2797	2475	2164
	10	3154	2817	2485	2149	1802
	15	2736	2363	1914	1245	715

FCZI450		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	8763	8384	8010	7642	7279
	10	8562	9924	7815	7447	7079
	15	8328	7949	7575	7201	6839
60	5	7358	6984	6605	6236	5868
	10	6878	6510	6147	5785	5428
	15	6605	6236	5868	5500	5137
50	5	5433	5071	4714	4362	4016
	10	5182	4820	4457	4100	3743
	15	4853	4479	4106	3732	3358
40	5	4596	4239	3888	3537	3191
	10	4317	3960	3598	3241	2878
	15	3944	3564	3180	2784	2382
45	5	3754	3403	3057	2705	2365
	10	3447	3079	2717	2348	1969
	15	2990	2583	2092	1361	781

FCZI500		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	9531	9119	8712	8312	7918
	10	9313	10793	8500	8100	7699
	15	9058	8646	8239	7833	7438
60	5	8002	7596	7183	6783	6383
	10	7481	7080	6686	6292	5903
	15	7183	6783	6383	5982	5588
50	5	5909	5515	5127	4744	4368
	10	5636	5242	4848	4459	4071
	15	5278	4872	4465	4059	3652
40	5	4999	4611	4229	3847	3470
	10	4696	4308	3913	3525	3131
	15	4289	3877	3458	3027	2591
45	5	4083	3701	3325	2943	2572
	10	3749	3349	2955	2554	2142
	15	3252	2809	2275	1480	849

FCZI550		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	10933	10460	9994	9534	9082
	10	10683	12381	9750	9291	8831
	15	10390	9917	9451	8984	8532
60	5	9179	8713	8240	7781	7321
	10	8581	8122	7669	7217	6771
	15	8240	7781	7321	6862	6410
50	5	6778	6326	5881	5442	5011
	10	6465	6013	5560	5115	4670
	15	6055	5588	5122	4656	4190
40	5	5734	5289	4851	4412	3981
	10	5387	4941	4489	4043	3591
	15	4920	4447	3967	3473	2972
45	5	4684	4245	3814	3375	2951
	10	4301	3842	3389	2930	2457
	15	3730	3222	2610	1698	974

FCZI700		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	12335	11801	11275	10757	10246
	10	12052	13968	11000	10482	9964
	15	11722	11188	10662	10136	9626
60	5	10356	9830	9296	8778	8260
	10	9681	9163	8652	8142	7640
	15	9296	8778	8260	7742	7231
50	5	7647	7137	6635	6140	5653
	10	7294	6784	6273	5771	5268
	15	6831	6305	5779	5253	4727
40	5	6470	5967	5473	4978	4491
	10	6077	5575	5064	4562	4051
	15	5551	5017	4475	3918	3353
45	5	5284	4789	4303	3808	3329
	10	4852	4334	3824	3305	2772
	15	4208	3635	2944	1916	1099

FCZI750		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	14017	13410	12812	12223	11643
	10	13696	15873	12500	11911	11322
	15	13321	12714	12116	11519	10939
60	5	11768	11171	10564	9975	9386
	10	11001	10412	9832	9252	8681
	15	10564	9975	9386	8797	8217
50	5	8690	8110	7539	6977	6424
	10	8289	7709	7129	6558	5987
	15	7762	7165	6567	5969	5371
40	5	7352	6781	6219	5657	5103
	10	6906	6335	5755	5184	4604
	15	6308	5701	5086	4452	3810
45	5	6005	5443	4889	4327	3783
	10	5514	4925	4345	3756	3150
	15	4782	4131	3346	2177	1249

FCZI900		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	16977	16242	15518	14805	14103
	10	16588	19225	15140	14427	13714
	15	16134	15399	14675	13951	13249
60	5	14254	13530	12795	12082	11369
	10	13324	12611	11909	11206	10515
	15	12795	12082	11369	10655	9953
50	5	10526	9823	9132	8451	7781
	10	10039	9337	8634	7943	7251
	15	9402	8678	7954	7230	6506
40	5	8905	8213	7532	6851	6181
	10	8364	7673	6970	6279	5576
	15	7640	6905	6160	5392	4614
45	5	7273	6592	5922	5241	4582
	10	6678	5965	5263	4550	3815
	15	5792	5003	4052	2637	1513

IN HEATING POWER (MODELS WITH SECONDARY BATTERY 65-55 °C

The heating power yielded by the coils (standard or larger) are stated in table format and are referred to the maximum speed, based on the water flow and on the difference of temperature between water entering and air entering. The performances at medium and minimum speed may be displayed through the selection software.

NB: The yield values marked in bold indicate the nominal value.

Key:

Tw [°C] = Inlet water temperature.

Ta B.S. [°C] = Inlet air temperature with dry bulb.

Ph [w] = Heating power yielded.

H = maximum speed.

M = medium speed.

L = minimum speed.

FCZ101		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	1469	1406	1343	1281	1221
	10	1436	1664	1310	1249	1187
	15	1396	1333	1270	1207	1147
65	5	1330	1267	1206	1144	1084
	10	1294	1233	1171	1109	1048
	15	1252	1190	1127	1065	1005
60	5	1234	1171	1107	1046	984
	10	1153	1091	1031	970	910
	15	1107	1046	984	922	861
50	5	911	850	790	731	673
	10	869	808	747	687	628
	15	814	751	688	626	563
45	5	771	711	652	593	535
	10	724	664	603	543	483
	15	661	598	533	467	399
40	20	629	571	513	454	397
	25	578	516	455	394	330
	30	501	433	351	228	131

FCZ102		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	2467	2360	2255	2151	2049
	10	2410	2794	2200	2096	1993
	15	2344	2238	2132	2027	1925
65	5	2233	2128	2024	1920	1820
	10	2173	2070	1966	1862	1760
	15	2103	1997	1892	1789	1686
60	5	2071	1966	1859	1756	1652
	10	1936	1833	1730	1628	1528
	15	1859	1756	1652	1548	1446
50	5	1529	1427	1327	1228	1131
	10	1459	1357	1255	1154	1054
	15	1366	1261	1156	1051	945
45	5	1294	1193	1094	996	898
	10	1215	1115	1013	912	810
	15	1110	1003	895	784	671
40	20	1057	958	861	762	666
	25	970	867	765	661	554
	30	842	727	589	383	220

FCZ301		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	3219	3079	2942	2807	2674
	10	3145	3645	2870	2735	2600
	15	3059	2919	2782	2645	2512
65	5	2913	2776	2641	2506	2374
	10	2835	2700	2565	2430	2297
	15	2743	2606	2469	2333	2200
60	5	2702	2565	2426	2290	2155
	10	2526	2391	2258	2125	1993
	15	2426	2290	2155	2020	1887
50	5	1995	1862	1731	1602	1475
	10	1903	1770	1637	1506	1375
	15	1782	1645	1508	1371	1233
45	5	1688	1557	1428	1299	1172
	10	1586	1455	1321	1190	1057
	15	1448	1309	1168	1022	875
40	20	1379	1250	1123	994	869
	25	1266	1131	998	863	723
	30	1098	949	768	500	287

FCZ302		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	5427	5192	4961	4733	4508
	10	5303	6146	4840	4612	4384
	15	5158	4923	4691	4460	4235
65	5	4912	4681	4453	4225	4004
	10	4781	4553	4325	4097	3872
	15	4626	4394	4163	3935	3710
60	5	4556	4325	4090	3862	3634
	10	4259	4031	3807	3582	3361
	15	4090	3862	3634	3406	3182
50	5	3365	3140	2919	2701	2487
	10	3209	2985	2760	2539	2318
	15	3005	2774	2542	2311	2080
45	5	2846	2625	2408	2190	1976
	10	2674	2453	2228	2007	1783
	15	2442	2207	1969	1724	1475
40	20	2325	2107	1893	1675	1465
	25	2135	1907	1682	1454	1219
	30	1852	1599	1295	843	484

FCZ401		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	3925	3755	3588	3423	3260
	10	3835	4445	3500	3335	3170
	15	3730	3560	3393	3225	3063
65	5	3553	3385	3220	3056	2896
	10	3458	3293	3128	2963	2801
	15	3345	3178	3011	2846	2683
60	5	3295	3128	2958	2793	2628
	10	3081	2916	2753	2591	2431
	15	2958	2793	2628	2463	2301
50	5	2433	2271	2111	1954	1799
	10	2321	2159	1996	1836	1676
	15	2174	2006	1839	1671	1504
45	5	2059	1899	1741	1584	1429
	10	1934	1774	1611	1452	1289
	15	1766	1596	1424	1247	1067
40	20	1681	1524	1369	1212	1059
	25	1544	1379	1217	1052	882
	30	1339	1157	937	610	350

FCZ402		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	6638	6351	6067	5789	5514
	10	6486	7517	5920	5641	5362
	15	6308	6021	5738	5455	5180
65	5	6008	5725	5446	5167	4897
	10	5848	5569	5290	5011	4736
	15	5658	5375	5091	4813	4538
60	5	5573	5290	5003	4724	4445
	10	5210	4931	4656	4382	4111
	15	5003	4724	4445	4166	3891
50	5	4115	3841	3570	3304	3042
	10	3925	3651	3376	3106	2835
	15	3676	3393	3110	2827	2544
45	5	3482	3211	2945	2679	2417
	10	3270	3000	2725	2455	2180
	15	2987	2700	2408	2108	1804
40	20	2844	2577	2315	2049	1792
	25	2611	2332	2058	1779	1492
	30	2265	1956	1584	1031	592

FCZ501		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	4687	4484	4284	4087	3893
	10	4579	5307	4180	3983	3786
	15	4454	4251	4051	3851	3657
65	5	4242	4042	3845	3648	3458
	10	4129	3932	3735	3538	3344
	15	3995	3795	3595	3398	3204
60	5	3935	3735	3532	3335	3138
	10	3678	3481	3288	3094	2903
	15	3532	3335	3138	2941	2748
50	5	2906	2712	2521	2333	2148
	10	2771	2578	2384	2193	2002
	15	2595	2396	2196	1996	1796
45	5	2458	2267	2079	1891	1706
	10	2309	2118	1924	1733	1539
	15	2109	1906	1700	1489	1274
40	20	2008	1820	1635	1447	1265
	25	1844	1647	1453	1256	1053
	30	1599	1381	1119	728	418

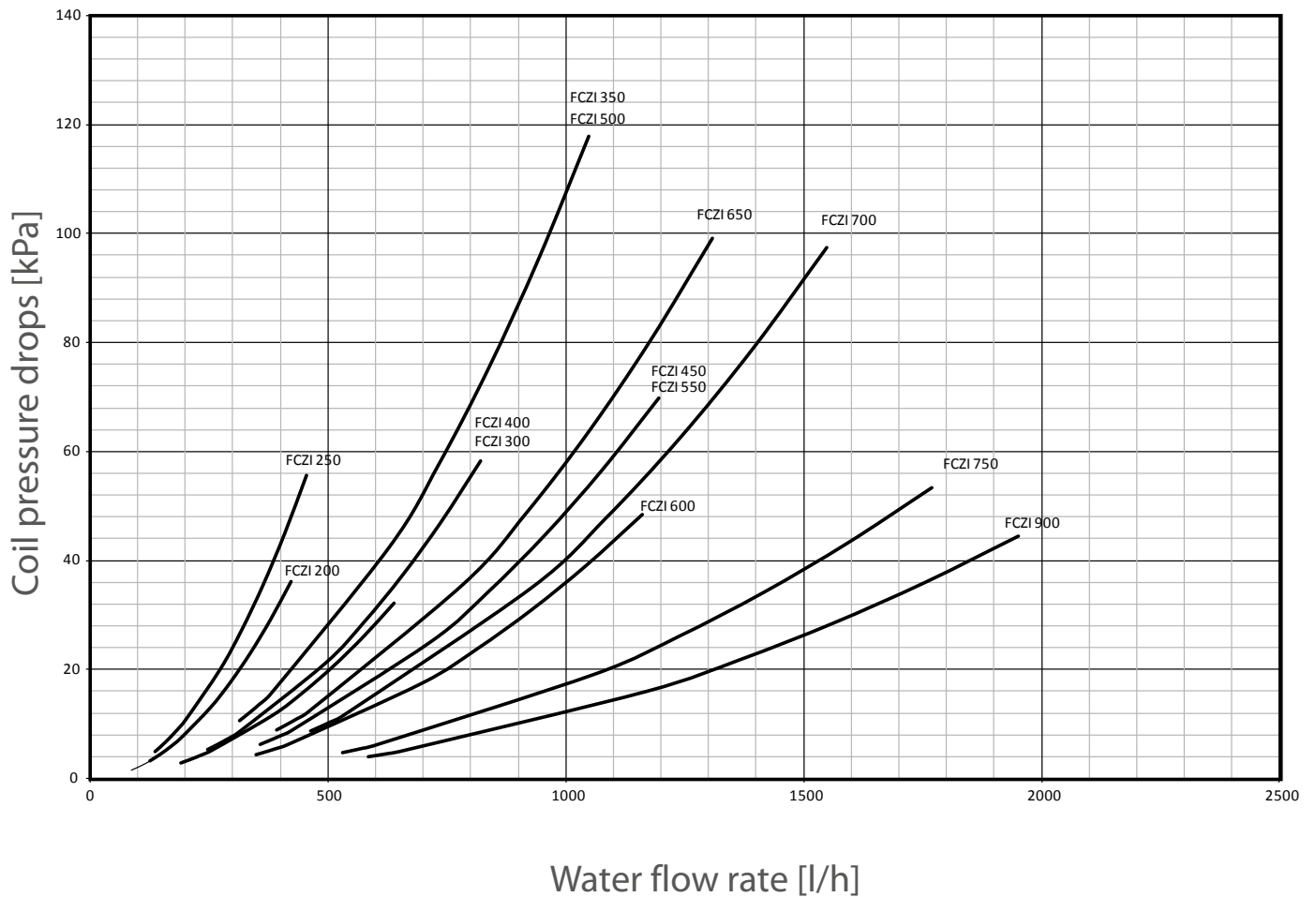
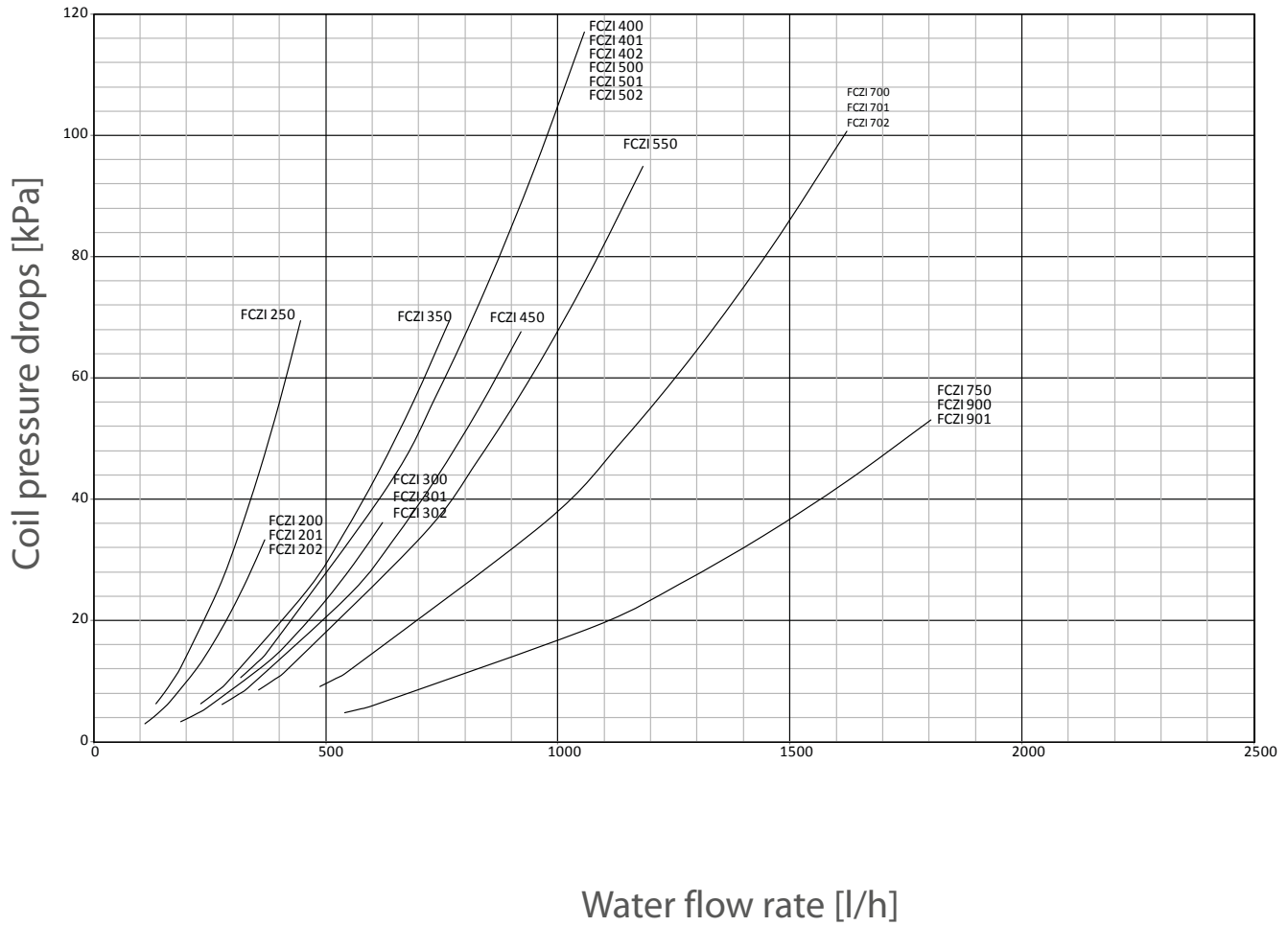
FCZ502		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	8085	7735	7390	7050	6716
	10	7899	9155	7210	6870	6530
	15	7683	7333	6988	6644	6309
65	5	7318	6973	6633	6294	5964
	10	7122	6783	6443	6103	5769
	15	6891	6546	6201	5861	5527
60	5	6788	6443	6093	5753	5414
	10	6345	6006	5671	5337	5007
	15	6093	5753	5414	5074	4740
50	5	5012	4678	4349	4024	3705
	10	4781	4446	4112	3782	3453
	15	4477	4132	3788	3443	3098
45	5	4240	3911	3587	3263	2944
	10	3983	3654	3319	2990	2655
	15	3638	3288	2933	2568	2197
40	20	3463	3139	2820	2496	2182
	25	3180	2841	2506	2167	1817
	30	2758	2383	1930	1256	720

FCZ701		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	6212	5944	5679	5418	5161
	10	6070	7035	5540	5279	5018
	15	5904	5635	5370	5105	4848
65	5	5623	5358	5097	4836	4583
	10	5473	5212	4951	4690	4433
	15	5295	5030	4765	4504	4247
60	5	5216	4951	4682	4421	4160
	10	4876	4615	4358	4101	3848
	15	4682	4421	4160	3899	3642
50	5	3852	3595	3342	3092	2847
	10	3674	3417	3160	2907	2653
	15	3440	3175	2910	2646	2381
45	5	3258	3005	2756	2507	2262
	10	3061	2808	2551	2298	2041
	15	2796	2527	2254	1973	1689
40	20	2661	2412	2167	1918	1677
	25	2444	2183	1926	1665	1396
	30	2120	1831	1483	965	554

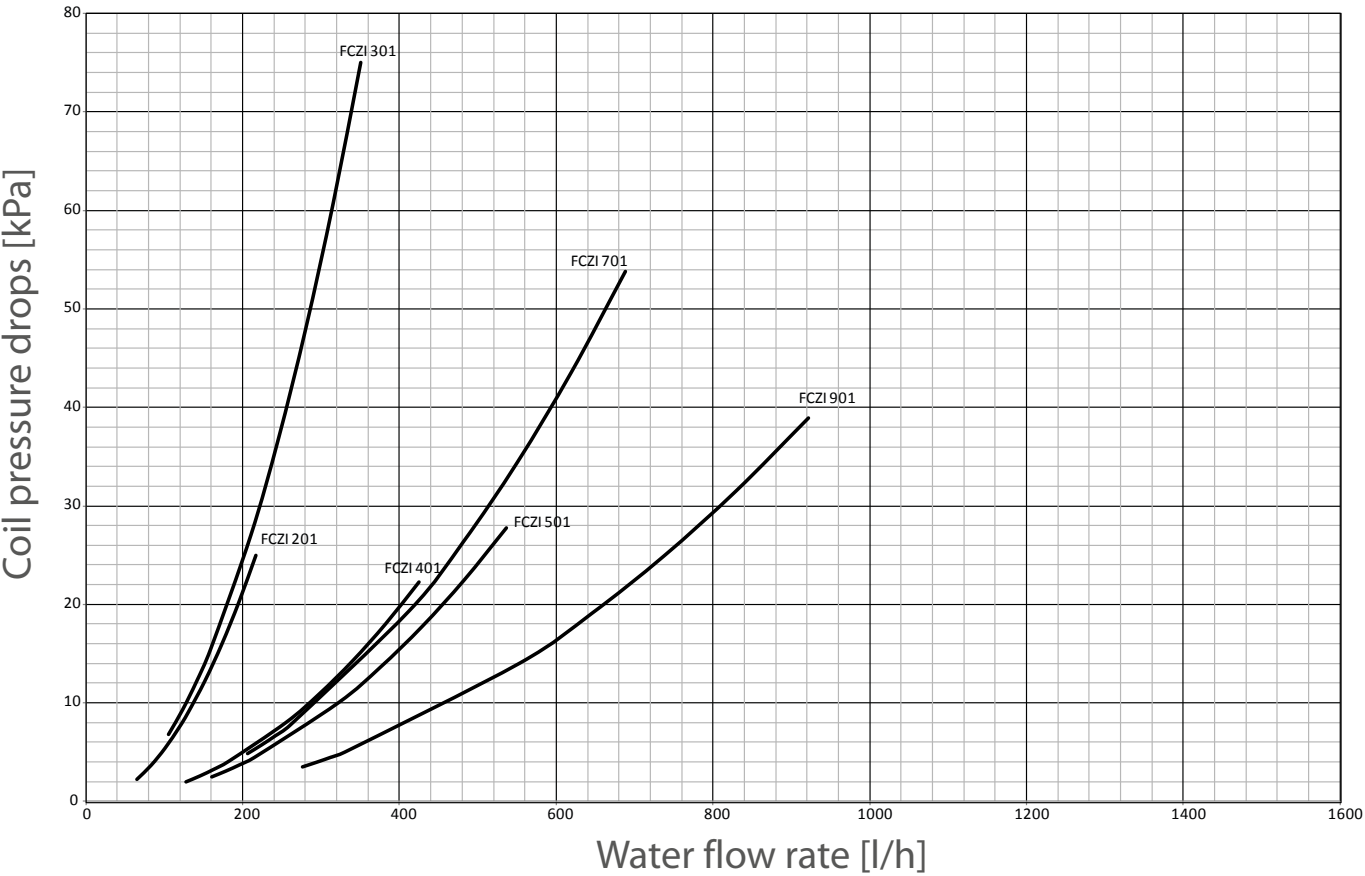
FCZ702		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	11052	10574	10102	9638	9181
	10	10799	12516	9856	9392	8928
	15	10503	10025	9554	9082	8625
65	5	10004	9533	9068	8604	8154
	10	9737	9272	8808	8344	7886
	15	9420	8949	8477	8013	7556
60	5	9279	8808	8330	7865	7401
	10	8674	8210	7753	7295	6845
	15	8330	7865	7401	6937	6479
50	5	6852	6395	5945	5501	5065
	10	6536	6078	5621	5171	4721
	15	6121	5649	5178	4707	4235
45	5	5797	5347	4903	4460	4024
	10	5445	4995	4538	4087	3630
	15	4974	4495	4010	3511	3004
40	20	4735	4291	3855	3412	2983
	25	4348	3883	3426	2962	2483
	30	3771	3257	2638	1717	985

FCZ901		Ta B.S. [°C]				
		16	18	20	22	24
Tw [°C]		Ph	Ph	Ph	Ph	Ph
in	dt	[W]	[W]	[W]	[W]	[W]
70	5	7187	6876	6570	6268	5970
	10	7023	8139	6410	6108	5806
	15	6831	6519	6213	5906	5609
65	5	6506	6199	5897	5595	5303
	10	6332	6030	5728	5426	5129
	15	6126	5820	5513	5211	4914
60	5	6035	5728	5417	5115	4813
	10	5641	5339	5042	4744	4452
	15	5417	5115	4813	4511	4214
50	5	4456	4159	3866	3578	3294
	10	4250	3953	3655	3363	3070
	15	3980	3674	3367	3061	2754
45	5	3770	3477	3189	2901	2617
	10	3541	3248	2951	2658	2361
	15	3235	2923	2608	2283	1954
40	20	3079	2791	2507	2219	1940
	25	2827	2525	2228	1926	1615
	30	2452	2118	1716	1116	641

14. PRESSURE DROPS WITH STANDARD COIL-IN COOLING-



15. PRESSURE DROP MAIN BATTERY IN HEATING

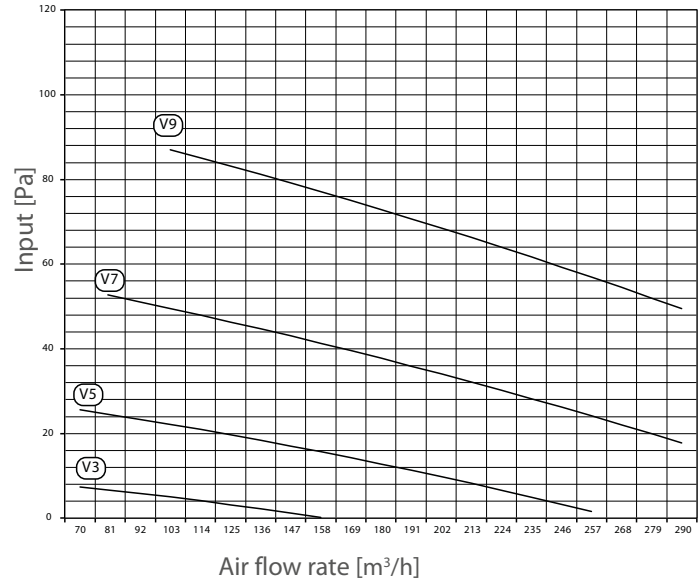


The pressure drops in the previous diagram refer to an average water temperature of 10 °C. The following table shows the correction to be applied to the pressure drops as the average water temperature varies.

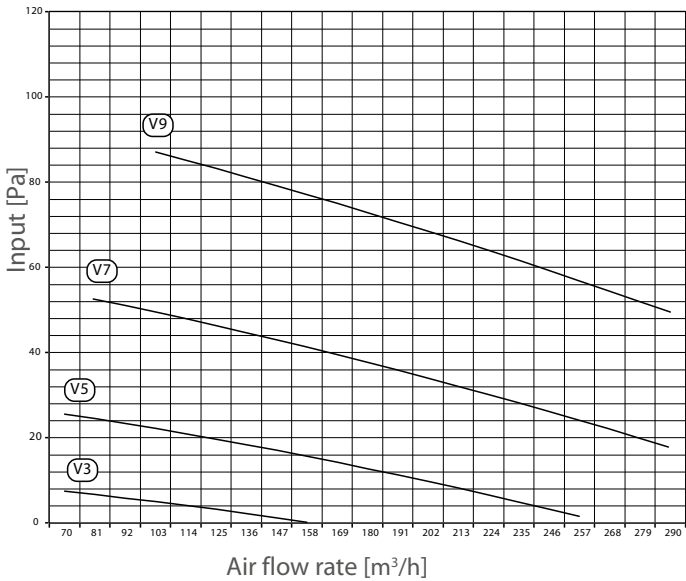
Average water temperature	°C	5	10	15	20	50	60	70
Multiplication coefficient		1,03	1	0,96	0,91	0,78	0,75	0,72

16. FCZI P FLOW STATIC PRESSURE

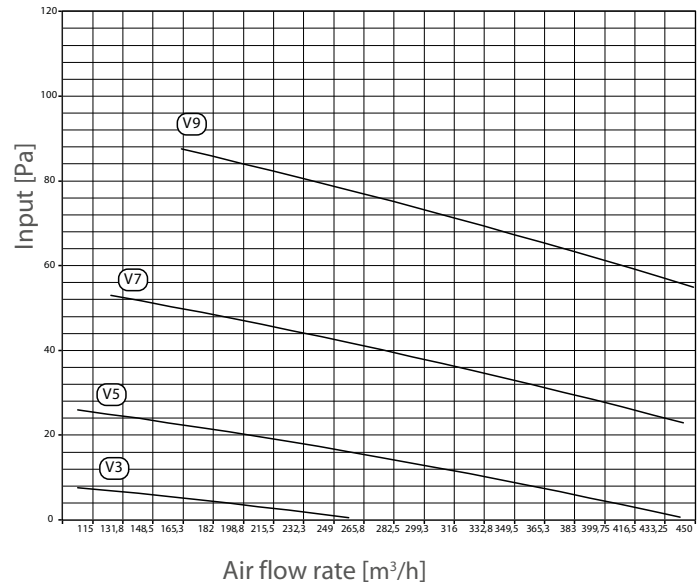
FCZI200P



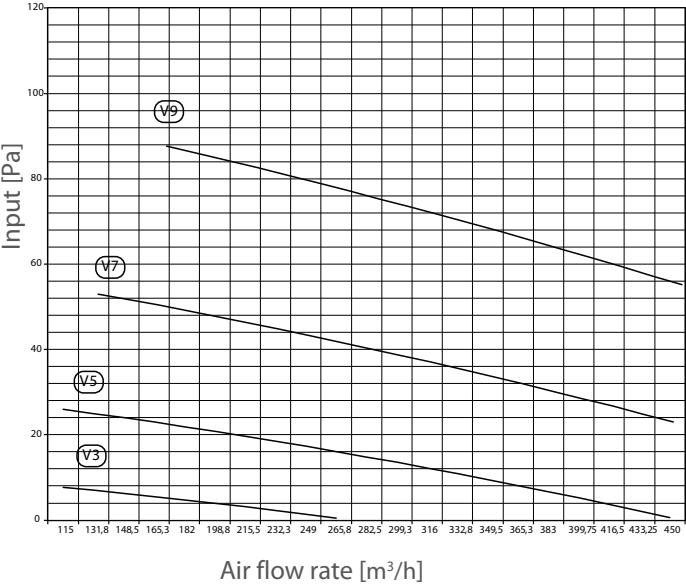
FCZI250P



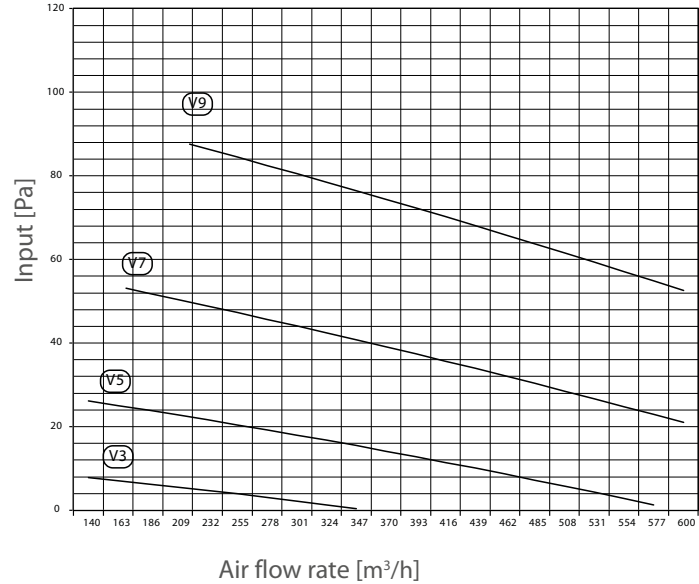
FCZI300P



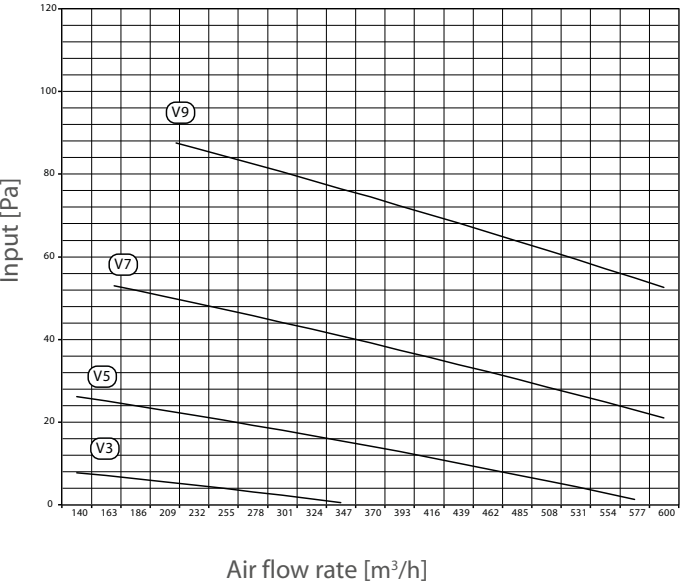
FCZI350P

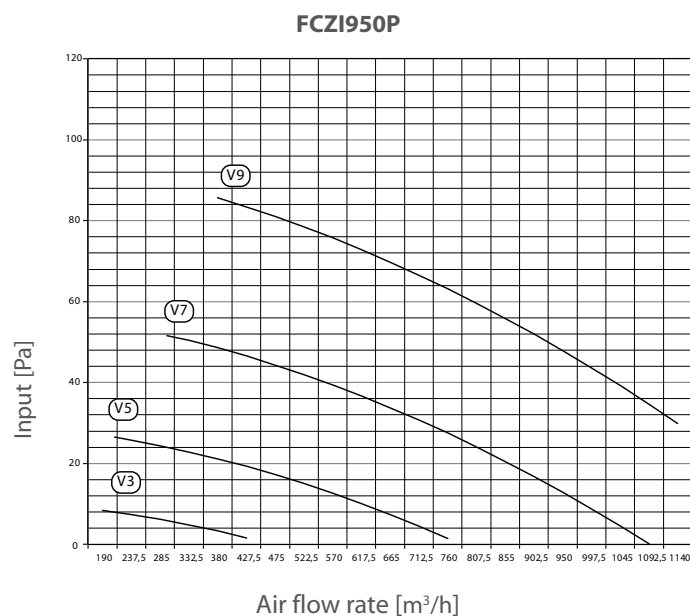
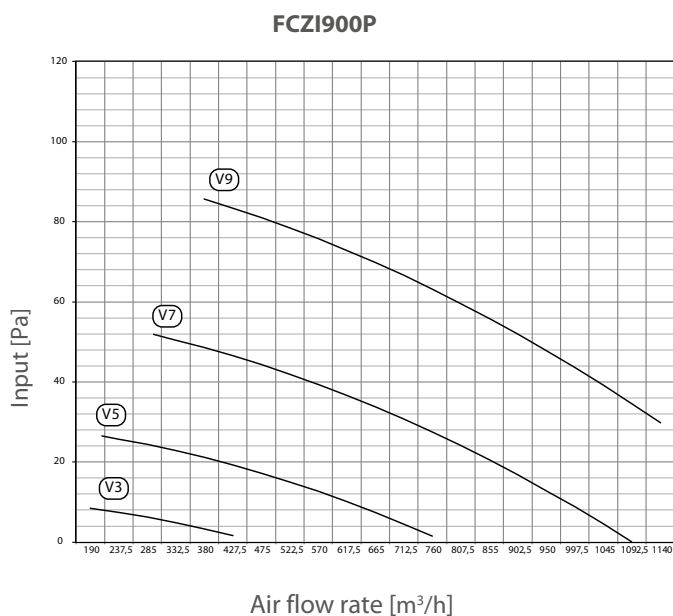
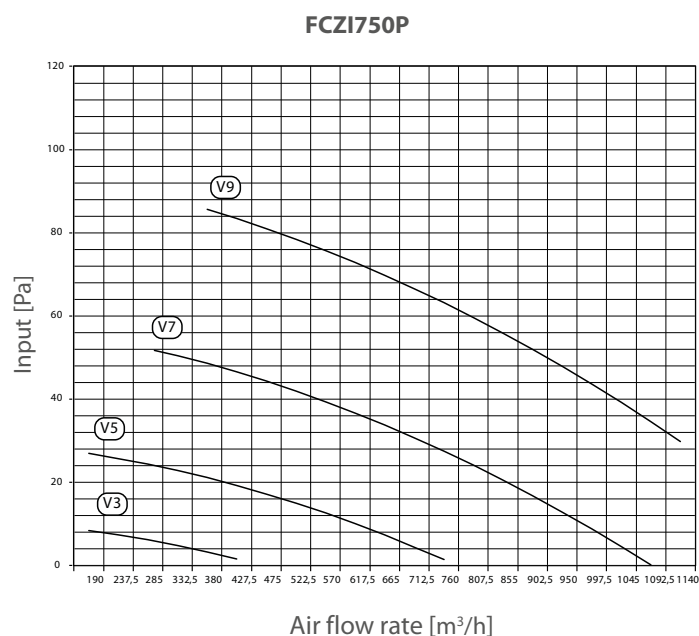
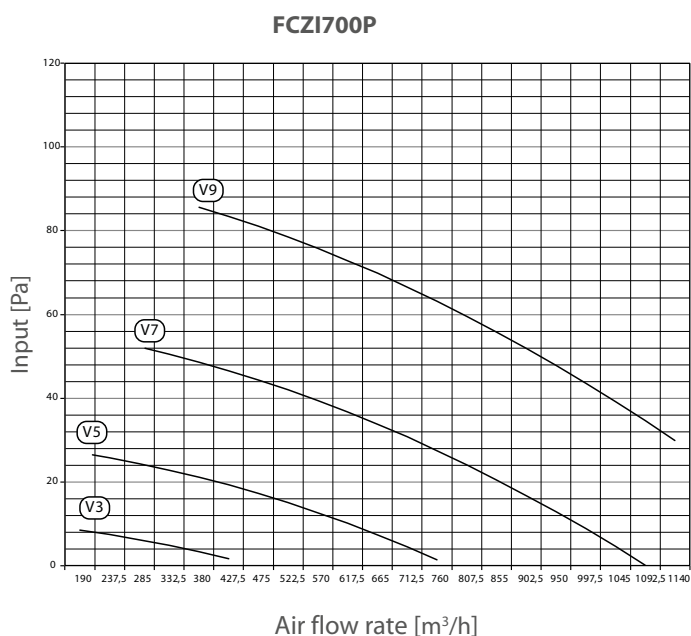
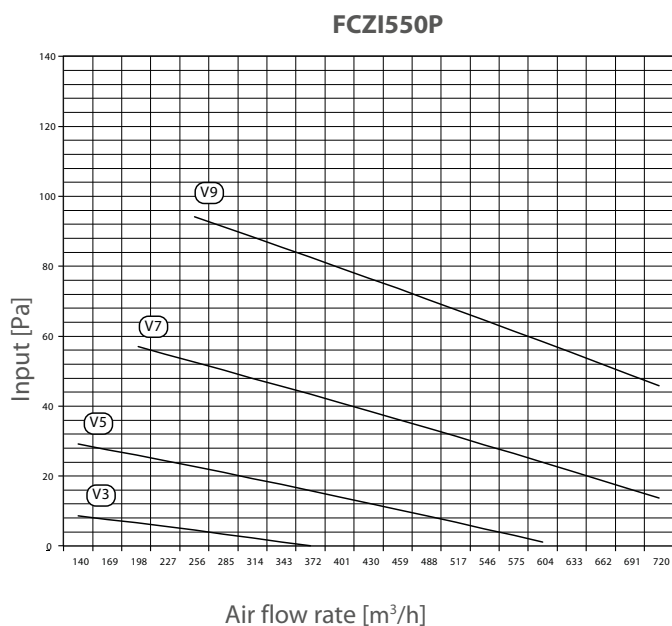
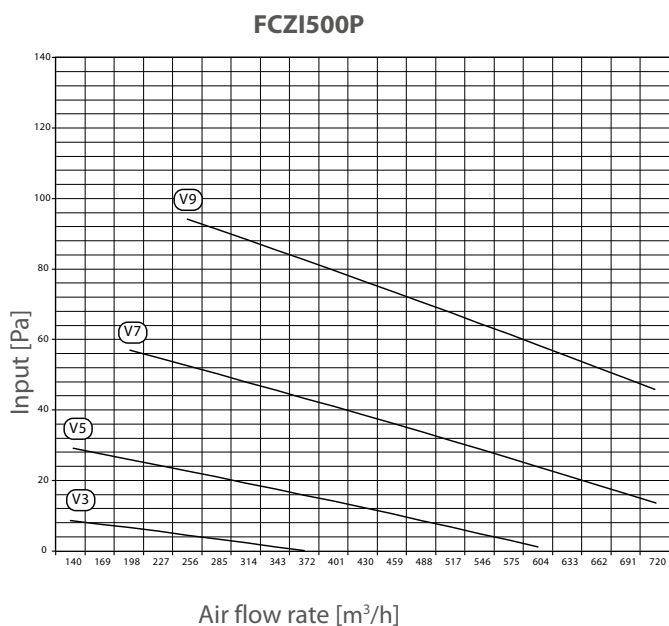


FCZI400P



FCZI450P





Use the appropriate selection program to check additional desired speeds.

17. CORRECTIVE FACTORS ETHYLENE GLYCOL

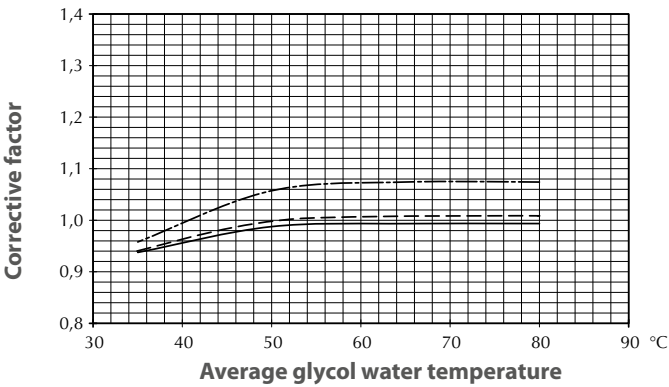
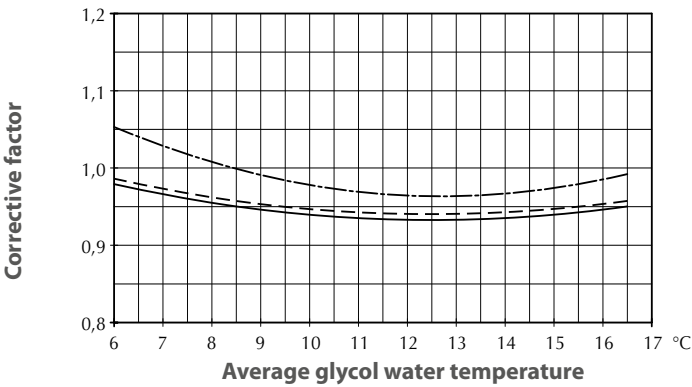
Key:

- Pressure drops
- - - Flow rate
- Yield

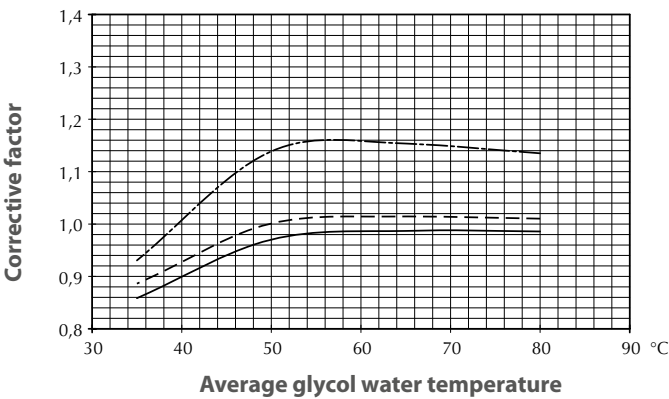
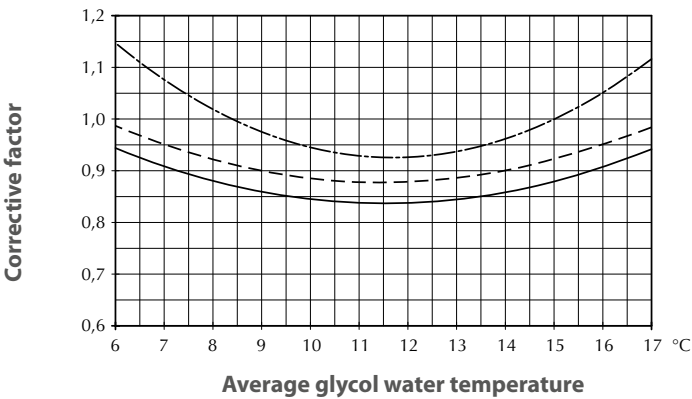
IN COOLING MODE

IN HEATING MODE

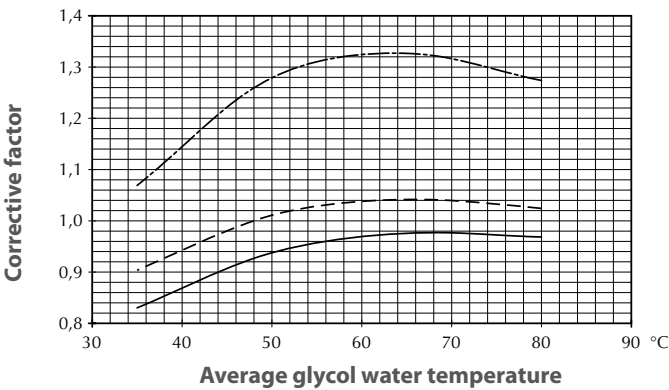
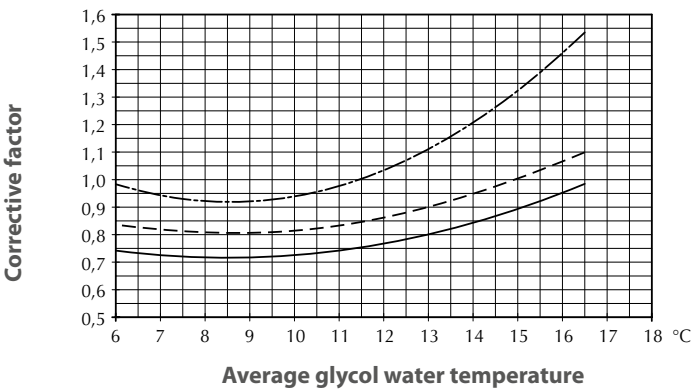
GLYCOL WATER AT 10%



GLYCOL WATER AT 20%



GLYCOL WATER AT 35%



18. LIVELLO DI POTENZA E PRESSIONE SONORA

SOUND POWER LEVEL EXPRESSED IN DB									GLOBAL		SOUND PRESSURE
		CENTRAL BAND FREQUENCY [HZ]									
FCZI	Speed	125	250	500	1000	2000	4000	8000	dB	dB (A)	
200	Max .	45,6	50,6	48,4	44,7	41,3	33,3	19,7	54,2	50	41,5
	Med.	39,2	44,9	41,7	37,6	31,9	25,8	7,5	47,9	43	34,5
	Min.	25,8	33	29,1	26,2	19,9	16,2	2,6	35,7	31	22,5
250	Max .	45,6	50,6	48,4	44,7	41,3	33,3	19,7	54,2	50	41,5
	Med.	39,2	44,9	41,7	37,6	31,9	25,8	7,5	47,9	43	34,5
	Min.	25,8	33	29,1	26,2	19,9	16,2	2,6	35,7	31	22,5
300	Max .	43,6	48,8	46,4	42,7	39	31,3	17,7	52,3	48	39,5
	Med.	37	43	39,7	35,7	29,9	24	5,4	45,9	41	32,5
	Min.	28,9	36,1	32,2	29	22,9	19,2	3,1	38,8	34	25,5
350	Max .	43,7	48,8	46,5	42,7	39,1	31,3	17,6	52,4	48	39,5
	Med.	37,2	42,5	40	35,7	29,9	24,2	6,1	45,8	41	32,5
	Min.	30,8	38	34,2	31,1	24,9	21,2	5,7	40,7	36	27,5
400	Max .	46,6	51,8	49,4	45,7	42	34,3	20,7	55,3	51	42,5
	Med.	39,6	44,8	42,4	38,7	35	27,3	13,7	48,3	44	35,5
	Min.	31,9	39,1	35,2	32	25,9	22,2	6,1	41,8	37	28,5
450	Max .	46,6	51,8	49,4	45,7	42	34,3	20,7	55,3	51	42,5
	Med.	39,6	44,8	42,4	38,7	35	27,3	13,7	48,3	44	35,5
	Min.	31,9	39,1	35,2	32	25,9	22,2	6,1	41,8	37	28,5
500	Max .	51,6	56,8	54,4	50,7	47	39,3	25,7	60,3	56	47,5
	Med.	46,6	51,8	49,4	45,7	42	34,3	20,7	55,3	51	42,5
	Min.	37,6	42,8	40,4	36,7	33	25,3	11,7	46,3	42	33,5
550	Max .	51,8	56,8	54,2	50,7	47,3	39,2	25,5	60,3	56	47,5
	Med.	48,5	53,8	51,2	47,7	44,3	36,4	22,8	57,3	53	44,5
	Min.	40	44,8	42,3	38,7	35,2	27,3	13,9	48,4	44	35,5
700	Max .	57,6	62,8	60,5	56,7	53,2	45	31,8	66,3	62	53,5
	Med.	52,4	57,8	55,5	51,7	48,2	40,1	26,7	61,3	57	48,5
	Min.	45,6	51	48,4	44,6	41,1	33,2	19,8	54,4	50	41,5
750	Max .	57,6	62,8	60,5	56,7	53,2	45	31,8	66,3	62	53,5
	Med.	52,4	57,8	55,5	51,7	48,2	40,1	26,7	61,3	57	48,5
	Min.	45,6	51	48,4	44,6	41,1	33,2	19,8	54,4	50	41,5
900	Max .	57,6	62,8	60,5	56,7	53,2	45	31,8	66,3	62	53,5
	Med.	52,4	57,8	55,5	51,7	48,2	40,1	26,7	61,3	57	48,5
	Min.	45,6	51	48,4	44,6	41,1	33,2	19,8	54,4	50	41,5
901	Max .	57,6	62,8	60,5	56,7	53,2	45	31,8	66,3	62	53,5
	Med.	52,4	57,8	55,5	51,7	48,2	40,1	26,7	61,3	57	48,5
	Min.	45,6	51	48,4	44,6	41,1	33,2	19,8	54,4	50	41,5

(E) = Eurovent certified performance

Sound pressure level (weighted A) measured in an environment with volume V= 85 m3 , reverberation time t= 0.5s , directionality factor Q= 2 , distance r= 2.5m.

19. COMPATIBILITY OF ACCESSORIES FCZ CABINET VERSIONS

ACCESSORIES

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

SA5: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

T-TOUCH-I: Touch control on board the machine, for controlling fan coils with brushless motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZI-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

TXBI: On board thermostat for fan coils 2/4 pipes of the FCZI series with brushless motor, complete with water probe and air probe to be positioned in the dedicated housings. The thermostat in 2-pipe systems it can control standard fan coils or those equipped with electrical resistors, with purification devices (Cold Plasma and germicidal lamp) with the radiating plate or with double flow FCZI-D (Dualjet).

VMF system

VMF-E19I: Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.

VMF-E2Z: User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E0, VMF-E19, VMF-E19I.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4X: A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 and VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IO: Manage the unit exclusively from a centralized VMF control panel without area control panel.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-LON: Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

VMHI: The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

Additional coil

BV: Single row hot water heat exchanger.

Installation accessories

PCZ: Metal panel for the unit rear closing. SPCZ brackets are necessary to fix floor standing fan coils.

GA: Lower intake grille for encapsulated fan coils. Can also be used in wall-mounted or floor installations, the FIKIT accessory is needed only in the case of floor installation.

FIKIT: Metal supports for vertical installation of the GA grille.

DSCZ4: Condensate drainage device.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

AMP: Wall mounting kit

ZXZ: Pair of stylish and structural feet.

		Single coil model											
FCZI		200	250	300	350	400	450	500	550	700	750	900	950
Probes and accessories for control panels													
T-TOUCH-I	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
PTI2Z	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
WMT21	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
SWAI	AS-AF-U-UF	In combination with WMT21											
VMF System													
VMF-E19I	AS-AF-U-UFD*	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E2Z	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4X	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E5	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW1	AS-AF-U-UF	•	•	•	•	•	•	•	•	•	•	•	•
Additional coil (heating only)													
BV122	All	•											
BV132	All			•									
BV142	All					•		•					
BVZ800	All									•			
BV162	All											•	
Water valves **													
Valve Kit for 4 pipe systems with main coil													
VCZ1X4L-R	AS-AF-U-UF(D+sist. VMF or DT)	•	•										
VCZ2X4L-R	AS-AF-U-UF(D+sist. VMF or DT)			•	•	•	•	•	•	•	•		
VCZ3X4L-R	AS-AF-U-UF(D+sist. VMF or DT)											•	•
3 way valve kit													
VCZ41/4124	All (1)	•	•										
VCZ42/4224	All (1)			•	•	•	•	•	•	•	•		
VCZ43/4324	All (1)											•	•
2 way valve kit													
VCZD1/124	All (1)	•	•										
VCZD2/224	All (1)			•	•	•	•	•	•	•	•		
VCZD3/324	All (1)											•	•
Combined adjustment and balancing valve independent of pressure**													
VJP060		•	•	•	•								
VJP090						•	•	•	•				
VJP150										•	•	•	•
VJP060M	(1)	•	•	•	•								
VJP090M	(1)					•	•	•	•				
VJP150M	(1)									•	•	•	•
Installation accessories													
AMP20	U	•	•	•	•	•	•	•	•				
AMPZ	U	•	•	•	•	•	•	•	•	•	•	•	•
DSC4	All (2)	•	•	•	•	•	•	•	•	•	•	•	•
BCZ4	(Vertical)	•	•	•	•	•	•	•	•	•	•	•	•
BCZ5	(Horizontal)	•	•	•	•	•	•	•	•	•	•		
BCZ6	(Horizontal)											•	•
Panel to close rear of unit													
PCZ200	All	•	•										
PCZ300	All			•	•								
PCZ500	All					•	•	•					
PCZ800	All									•	•		
PCZ1000	All											•	•
Grille for ceiling mounted units													
GA200	U-UF	•	•										
GA300	U-UF			•	•								
GA500	U-UF					•	•	•	•				
GA800	U-UF									•	•	•	•
ZXZ	All	•	•	•	•	•	•	•	•	•	•	•	•

For further details concerning control panels and VMF system refer to the dedicated sheets.

* Contact Aermec

**The water valves can be combined with the unit if it is also provided a control panel that controls

** VJP / VJP_M The compatibility of the valves in the hot branch plant 4 tubes, check with the design water flow

(1) VCZ4124-VCZ4224-VCZ4324-VCZD124-VCZD224-VCZD324-VJP060M-VJP090M-VJP150M are 24V

(2) DSC4 is not available with AMPZ

			Twin coil model										
FCZI			201	202	301	302	401	402	501	502	701	702	901
Probes and accessories for control panels													
T-TOUCH-I	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
PTI2Z	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
WMT21	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
SWAI	AS-AF-U-UF		In combination with WMT21										
VMF System													
VMF-E19I	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
VMF-E2Z	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
VMF-E4X	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
VMF-E5	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
VMF-SW	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
VMF-SW1	AS-AF-U-UF		•	•	•	•	•	•	•	•	•	•	•
Water valves													
3 way valve kit													
VCZ41/4124	All	(1)	•	•									
VCZ42/4224	All	(1)			•	•	•	•	•	•	•	•	
VCZ43/4324	All	(1)											•
2 way valve kit													
VCZD1/124	All	(1)	•	•									
VCZD2/224	All	(1)			•	•	•	•	•	•	•	•	
VCZD3/324	All	(1)											•
3 way valve kit for heating coil only													
VCF44/4424	All	(1)	•	•	•	•	•	•	•	•	•	•	
VCF45/4524	All	(1)											•
2 way valve kit for heating coil only													
VCFD4/424	All	(1)	•	•	•	•	•	•	•	•	•	•	•
Combined adjustment and balancing valve independent of pressure**													
VJP060	All		•	•	•	•	•	•	•	•	•	•	
VJP150	All												•
VJP060M	All	(1)	•	•	•	•	•	•	•	•	•	•	
VJP150M	All	(1)											•
Installation accessories													
AMP20	U-UF		•	•	•	•	•	•	•	•			
AMPZ	U-UF		•	•	•	•	•	•	•	•	•	•	•
DSC4	All	(2)	•	•	•	•	•	•	•	•	•	•	•
BCZ4	(Vertical)		•	•	•	•	•	•	•	•	•	•	•
BCZ5	(Horizontal)		•	•	•	•	•	•	•	•	•	•	
BCZ6	(Horizontal)												•
Panel to close rear of unit													
PCZ200	All		•	•									
PCZ300	All				•	•							
PCZ500	All						•	•	•	•			
PCZ800	All										•	•	
PCZ1000	All												•
Grille for ceiling mounted units													
GA200	U-UF		•	•									
GA300	U-UF				•	•							
GA500	U-UF						•	•	•	•			
GA800	U-UF										•	•	•
ZXZ	All		•	•	•	•	•	•	•	•	•	•	•

For further concerning control panels and VMF system refer to the dedicated sheets.

****The water valves can be combined with the unit if it is also provided a control panel that controls**

VJP / VJP_M The compatibility of the valves in the hot branch plant 4 tubes, check with the design water flow

(1) VCZ4124-VCZ4224-VCZ4324-VCZD124-VCZD224-VCZD324-VJP60M-VJP090M-VJP150M are 24V

(2) DSC4 is not available with AMPZ

20. COMPATIBILITY ACCESSORIES DUCT FCZ

Control panels

AER503IR: Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.

PRO503: Wall box for AER503IR and VMF-E4 thermostats.

PXAI: Thermostat on the machine for controlling the fan coils (both with asynchronous and brushless motors), complete with water and air probes to be positioned in the relative seats, and a plastic support to fix it on the side of the unit. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, purifier devices (Cold Plasma and germicidal lamp), or radiant plate.

SAS: air probe kit (L = 15 m) with probe-locking cable grommet.

SW3: Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side change-over.

SW5: water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.

TX: Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).

VMF system

VMF-E19I: Thermostat for inverter unit to be fixed on the side of the fan coil, fitted as standard with an air and water probe.

VMF-E3: Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.

VMF-E4DX: Wall-mounted user interface. Grey front panel PANTONE 425C (METAL).

VMF-E4X: Wall-mounted user interface. Light grey front panel PANTONE COOL GRAY 1C.

VMF-IR: User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.

VMF-SW: Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve

VMF-SW1: Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range

Water valves

VCZ_X: 3-way valve kit for single-coil fan coil, RH connections, (VCZ_X4R) or LH (VCZ_X4L) for 4-pipe systems. With totally separate "heating" and "cooling" circuits. This kit consists of two 3-way insulated valves and four connections, complete with electrothermal actuators, insulating shells for the valves, and the relative hydraulic couplings. X4L version for fan coils with LH connections, and X4R for fan coils with RH connections. 230V~50Hz power supply.

VCZ41: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4124: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ42: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4224: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain

pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ43: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCZ4324: 3-way motorised valve kit. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the 3-way insulating shell. The kit consists of a valve with its insulating shell, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections. If the valve is combined with the BCZ5 or BCZ6 condensate drain pan, to ensure a better housing it is possible to remove the insulating shell.

VCF44 - 45 - for the secondary coil: The 3-way motorised valve kit for the secondary coil heat only. The kit consists of a valve with its insulating shell, actuator and relevant water fittings; it is suitable to be installed on the fan coils with right and left water connections.

VCZD: 2-way motorised valve kit. The kit consists of a valve, an actuator and the relative pipe fittings. It can be installed on fan coils with both right and left connections.

VJP: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, which can guarantee a constant water flow rate in the terminal, within its operating range.

(Heating only) additional coil

BV: Single row hot water heat exchanger.

Installation accessories

AMP: Wall mounting kit

DSC: Condensate drainage device.

BC: Condensate drip.

BCZ: Condensate drip. If the valve is paired with the BCZ5 or BCZ6 condensate drip tray, the insulating shell can be removed to ensure better housing.

Ventilcassaforma: Galvanised sheet metal template. It makes it possible to obtain directly in the wall a space for housing the fan coil.

MZA: Cabinet housing with fixed fins.

MZU: Cabinet housing with adjustable fins.

GA: Intake grid with fixed louvers

GAF: Intake grid with filter and fixed louvers

GM: Flow grid with adjustable louvers.

PA: Intake plenum in galvanised sheet metal, complete with suction couplings for circular-section ducts.

PAF: Intake plenum providing recovery and delivery on the same side, for all installations where the machine needs to be positioned outside the air conditioned rooms to minimise the noise levels and facilitate maintenance.

PM: Delivery plenum with circular flanges. Sandwich structure in hot galvanised steel, with interposed polyurethane foam (40 kg/m³). The panel is 15 mm thick. It is installed in place of the delivery panel with a rectangular flange, using the same 4 self-threading screws.

RD: Straight delivery coupling for canalisation.

RDA: Straight suction coupling for canalisation.

RP: 90° delivery coupling.

RPA: 90° suction coupling.

Accessories for ducting

MZC: Plenum with motorised dampers.

RDA_V: Straight intake connection with rectangular flange.

RPA_V: Suction plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDA_C: Straight intake connection with circular flanges.

PA_V: Suction plenum with circular plastic flanges; both sides have a circular push-out Ø 150mm that can be removed.

PM_V: Internally insulated delivery plenum with circular flanges; both sides have a circular push-out Ø 150mm that can be removed.

RPM_V: Internally insulated delivery plenum with rectangular flange; both sides have a circular push-out Ø 150mm that can be removed.

RDM_V: Straight delivery coupling in galvanised sheet metal.

RDM_C: Straight discharge internally insulated, with circular flanges.

		Single coil models											
FCZI_P		200	250	300	350	400	450	500	550	700	750	900	950
Probes and accessories for control panels													
WMT21		•	•	•	•	•	•	•	•	•	•	•	•
SWAI		In combination with WMT21											
VMF System													
VMF-E19I		•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4X		•	•	•	•	•	•	•	•	•	•	•	•
VMF-E5		•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW		•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW1		•	•	•	•	•	•	•	•	•	•	•	•
Additional coil (heating only)													
BV122		•											
BV132				•									
BV142						•		•					
BVZ800										•			
BV162												•	
Water valves*													
Valve Kit for 4 pipe systems with Main coil													
VCZ1X4L-R		•	•										
VCZ2X4L-R				•	•	•	•	•	•	•	•		
VCZ3X4L-R												•	•
3 way valve kit													
VCZ41/4124	(1)	•	•										
VCZ42/4224	(1)			•	•	•	•	•	•	•	•		
VCZ43/4324	(1)											•	•
2 way valve kit													
VCZD1/124	(1)	•	•										
VCZD2/224	(1)			•	•	•	•	•	•	•	•		
VCZD3/324	(1)			•	•	•	•	•	•	•	•	•	•
Combined adjustment and balancing valve independent of pressure**													
VJP060		•	•	•	•								
VJP090						•	•	•	•				
VJP150										•	•	•	•
VJP060M	(1)	•	•	•	•								
VJP090M	(1)					•	•	•	•				
VJP150M	(1)									•	•	•	•
Installation accessories													
AMP20		•	•	•	•	•	•	•	•				
AMPZ		•	•	•	•	•	•	•	•	•	•	•	•
DSC4	(2)	•	•	•	•	•	•	•	•	•	•	•	•
Auxiliary condensate drip tray													
BC4	(3)	•	•	•	•	•	•	•	•	•	•		
BC5	(4)	•	•	•	•	•	•	•	•	•	•		
BC6	(4)											•	•
BC8	(4)	•	•	•	•	•		•	•	•	•		
BC9	(4)											•	•
Ventilcassaforma													
CHF22		•	•										
CHF32				•	•								
CHF42						•	•	•	•				
CHF62										•	•	•	•

For further concerning control panels and VMF system refer to the dedicated sheets.

* The water valves can be combined with the unit if it is also provided a control panel that controls

** VJP / VJP_M The compatibility of the valves in the hot branch plant 4 tubes, check with the design water flow

(1) VCZ4124-VCZ4224-VCZ4324-VCZD124-VCZD224-VCZD324-VCZD424-VCZD524-VCZD624 are 24V

(2) DSC4 It's not available with AMPZ

(3) For vertical installation. BC4 is not available with valve VCZ-VCZD / VCF-VCZD

(4) For horizontal installation

	Single coil models											
FCZI_P	200	250	300	350	400	450	500	550	700	750	900	950
Grille												
GA22	•	•										
GA32			•	•								
GA42					•	•	•	•				
GA62									•	•	•	•
GAF22	•	•										
GAF32			•	•								
GAF42					•	•	•	•				
GAF62									•	•	•	•
GM22	•	•										
GM32			•	•								
GM42					•	•	•	•				
GM62									•	•	•	•
Accessoires for installation												
PA22	•	•										
PA32			•	•								
PA42					•	•	•	•				
PA62									•	•	•	•
PA22F	•	•										
PA32F			•	•								
PA42F					•	•	•	•				
PA62F									•	•	•	•
PM22	•	•										
PM32			•	•								
PM42					•	•	•	•				
PM62									•	•	•	•
RD22	•	•										
RD32			•	•								
RD42					•	•	•	•				
RD62									•	•	•	•
RDA22	•	•										
RDA32			•	•								
RDA42					•	•	•	•				
RDA62									•	•	•	•
RP22	•	•										
RP32			•	•								
RP42					•	•	•	•				
RP62									•	•	•	•
RPA17												
RPA22	•	•										
RPA32			•	•								
RPA42					•	•	•	•				
RPA62									•	•	•	•
Plenum for duct installation												
MZC220	•	•										
MZC320			•	•								
MZC530					•	•	•	•				
MZC830									•	•	•	
RDA000V	•	•										
RDA100V			•	•								
RDA200V					•	•	•	•				
RDA300V									•	•	•	•
RPA000V	•	•										
RPA100V			•	•								
RPA200V					•	•	•	•				
RPA300V									•	•	•	•
RDAC000V	•	•										
RDAC100V			•	•								
RDAC200V					•	•	•	•				
RDAC300V									•	•	•	•

21. COMPATIBILITY ACCESSORIES DUCT FCZ

	Single coil models											
FCZI_P	200	250	300	350	400	450	500	550	700	750	900	950
PA000V	•	•										
PA100V			•	•								
PA200V					•	•	•	•				
PA300V									•	•	•	•
PM000V	•	•										
PM100V			•	•								
PM200V					•	•	•	•				
PM300V									•	•	•	•
RPM000V	•	•										
RPM100V			•	•								
RPM200V					•	•	•	•				
RPM300V									•	•	•	•
RDMC000V	•	•										
RDMC100V			•	•								
RDMC200V					•	•	•	•				
RDMC300V									•	•	•	•

	Twin coil models											
FCZI_P	201	202	301	302	401	402	501	502	701	702	901	
Probes and accessories for control panels												
WMT21	•	•	•	•	•	•	•	•	•	•	•	•
SWAI	In combination with WMT21											
VMF System												
VMF-E19I	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4X	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E5	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW1	•	•	•	•	•	•	•	•	•	•	•	•
Water valves												
3 way valve kit												
VCZ41/4124	(1)	•	•									
VCZ42/4224	(1)			•	•	•	•	•	•	•	•	
VCZ43/4324	(1)											•
2 way valve kit												
VCZD1/124	(1)	•	•									
VCZD2/224	(1)			•	•	•	•	•	•	•	•	
VCZD3/324	(1)											•
Combined adjustment and balancing valve independent of pressure**												
VJP060		•	•	•	•							
VJP090						•	•	•	•			
VJP150										•	•	•
VJP060M	(1)	•	•	•	•							
VJP090M	(1)					•	•	•	•			
VJP150M	(1)									•	•	•
3 way valve kit for heating coil only												
VCF44/4424	(1)	•	•	•	•	•	•	•	•	•	•	
VCF45/4524	(1)											•
2 way valve kit for heating coil only												
VCFD4/424	(1)	•	•	•	•	•	•	•	•	•	•	•
Accessoires for installation												
AMP20		•	•	•	•	•	•	•	•			
AMPZ		•	•	•	•	•	•	•	•	•	•	•

For further concerning control panels and VMF system refer to the dedicated sheets.

* The water valves can be combined with the unit if it is also provided a control panel that controls

** VJP / VJP_M The compatibility of the valves in the hot branch plant 4 tubes, check with the design water flow

(1) VCZ4124-VCZ4224-VCZ4324-VCZD124-VCZD224-VCFD324-VCF4424-VCF4524-VCFD424 are 24V

(2) DSC4 It's not available with AMPZ

(3) For vertical installation. BC4 is not available with valve VCZ-VCZD / VCF-VCFD

(4) For horizontal installation

		Twin coil models										
FCZI_P		201	202	301	302	401	402	501	502	701	702	901
DSC4	(2)	•	•	•	•	•	•	•	•	•	•	•
Auxiliary condensate drip tray												
BCZ4	(3)	•	•	•	•	•	•	•	•	•	•	
BCZ5	(4)	•	•	•	•	•	•	•	•	•	•	
BCZ6	(4)											•
BC8	(4)	•	•	•	•	•	•	•	•	•	•	
BC9	(4)											•
Ventilcassaforma												
CHF17												
CHF22		•	•									
CHF32				•	•							
CHF42						•	•	•	•			
CHF62										•	•	•
Grille												
GA17												
GA22		•	•									
GA32				•	•							
GA42						•	•	•	•			
GA62										•	•	•
GAF17												
GAF22		•	•									
GAF32				•	•							
GAF42						•	•	•	•			
GAF62										•	•	•
GM17												
GM22		•	•									
GM32				•	•							
GM42						•	•	•	•			
GM62										•	•	•
Accessoires for installation												
PA17												
PA22		•	•									
PA32				•	•							
PA42						•	•	•	•			
PA62										•	•	•
PA17F												
PA22F		•	•									
PA32F				•	•							
PA42F						•	•	•	•			
PA62F										•	•	•
PM17												
PM22		•	•									
PM32				•	•							
PM42						•	•	•	•			
PM62										•	•	•
RD17												
RD22		•	•									
RD32				•	•							
RD42						•	•	•	•			
RD62										•	•	•
RDA17												
RDA22		•	•									
RDA32				•	•							
RDA42						•	•	•	•			
RDA62										•	•	•
RP22		•	•									
RP32				•	•							
RP42						•	•	•	•			
RP62										•	•	•

Compatibility of accessories

	Twin coil models										
FCZL_P	201	202	301	302	401	402	501	502	701	702	901
RPA17											
RPA22	•	•									
RPA32			•	•							
RPA42					•	•	•	•			
RPA62									•	•	•
Plenum for duct installation											
MZC220	•	•									
MZC320			•	•							
MZC530					•	•	•	•			
MZC830									•	•	•
RDA000V	•	•									
RDA100V			•	•							
RDA200V					•	•	•	•			
RDA300V									•	•	•
RPA000V	•	•									
RPA100V			•	•							
RPA200V					•	•	•	•			
RPA300V									•	•	•
RDAC000V	•	•									
RDAC100V			•	•							
RDAC200V					•	•	•	•			
RDAC300V									•	•	•
PA000V	•	•									
PA100V			•	•							
PA200V					•	•	•	•			
PA300V									•	•	•
PM000V	•	•									
PM100V			•	•							
PM200V					•	•	•	•			
PM300V									•	•	•
RPM000V	•	•									
RPM100V			•	•							
RPM200V					•	•	•	•			
RPM300V									•	•	•
RDMC000V	•	•									
RDMC100V			•	•							
RDMC200V					•	•	•	•			
RDMC300V									•	•	•

22. CONTROL PANELS WITH MULTIFUNCTION ELECTRONIC THERMOSTAT

AER503IR

Flush-mounting thermostat with backlit display, capacitive keypad and infrared receiver, for controlling both brushless fan coils and those with an asynchronous motor. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices (Cold Plasma and germicidal lamp), with radiant plate or with FCZ-D twin delivery (Dualjet). In addition, it can control systems with radiant panels or mixed (fan coil and radiant floor) systems. Being equipped with an infrared receiver, it can, in turn, be controlled by the VMF-IR remote control.



PRO503

Wall box for AER503IR and VMF-E4 thermostats.



SA5

air probe kit (L = 15 m) with probe-locking cable grommet.



SW3

Water probe (L = 2.5 m) for controlling the minimum and maximum and to allow automatic seasonal switching for electronic thermostats fitted with water side changeover.



SW5

water probe kit (L = 15m) with probe-holder connection point, fixing clip and probe-holder from heat exchanger.



T-TOUCH-I

Touch control on board the machine, for controlling fan coils with brushless motors. In 2-pipe systems, it can control standard fan coils or those equipped with an electric heater, with air purifying devices or with FCZI-D twin delivery (Dualjet). In 4-pipe systems, only standard fan coils.



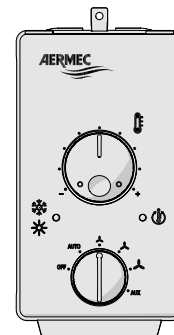
TX

Wall-mounting thermostat for controlling either brushless fan coils or those with asynchronous motors for 2/4 pipe. In 2-pipe systems, the thermostat can control standard fan coils or those equipped with an electric heater, with air purifying devices, radiant plate or FCZ-D twin delivery (Dualjet).



TXBI

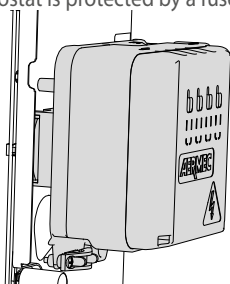
On board thermostat for fan coils 2/4 pipes of the FCZI series with brushless motor, complete with water probe and air probe to be positioned in the dedicated housings. The thermostat in 2-pipe systems it can control standard fan coils or those equipped with electrical resistors, with purification devices (Cold Plasma and germicidal lamp) with the radiating plate or with double flow FCZI-D (Dualjet).



23. CONTROL PANEL ACCESSORIES, THERMOSTATS AND VMF SYSTEM CONTROL DEVICES

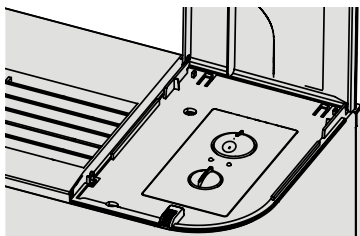
VMF-E19I:

Thermostat to be secured to the side of the fan coil, fitted as standard with an air probe and a water probe, it controls systems with 2 pipes, 4 pipes, 2 pipes + Cold Plasma, 2 pipes + UV lamps, 2 pipes + Heating element. Equipped with an external contact to be used as a remote ON-OFF at low voltage. By means of 2-wire serial communication, this thermostat allows for the creation of a single fan coil area (1 master + maximum 5 slaves). Compared to the previous model, thanks to a different dip switch configuration, it allows implementing new features: In systems with two pipes and a heating element - the latter can be activated as a complete replacement - allowing you to warm the environment exclusively with this accessory - Dualjet features are available in standard software and can be set via dip switch - Economy contact/presence sensor - Additional water sensor for overall control in 4-pipe systems (with VMF-SW1 accessory) - Serial RS485, ModBus RTU protocol, for centralised control - Possibility of inserting expansion boards for future developments. The VMF-E19 accessory must be therefore used in masters in the presence of multiple zones, or for communication with the chiller/heat pump - Compatibility with the VMF-IO accessory - Compatibility with VMF-LON expansion board. The thermostat is protected by a fuse.



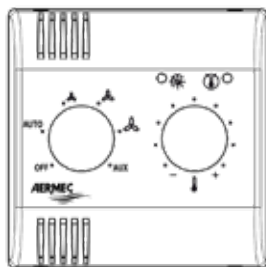
VMF-E2Z

User interface on the fan coil, with two selectors, one for temperature and the other for speed control; to be combined with accessories VMF-E0, VMF-E19, VMF-E19I.



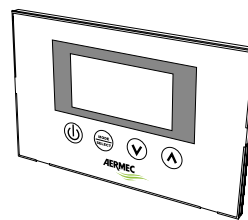
VMF-E3:

Wall mounted user interface, to be combined with accessories VMF-E19, VMF-E19I, VMF-E0X with grids GLF_N/M and GLL_N, can be controlled with VMF-IR control.



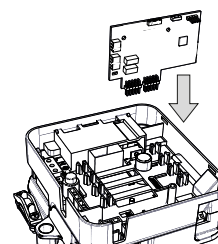
VMF-E4X

A wall-mounted user interface to be combined with VMF-E19, VMF-E19I, VMF-E24 and VMF-E24I accessories. Featuring an innovative, extremely slim and cost-effective design, it allows running functions via a capacitive touchscreen keyboard with LCD display. You can choose to adjust the environment temperature with a panel-mounted sensor probe (standard), or with the VMF-E19/E19I probe, or through mediated reading. It also enables the activation of an air purifier (Cold Plasma/ UV lamp) and a heating element. Light grey front panel PANTONE COOL GRAY 1C.



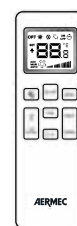
VMF-IO

Manage the unit exclusively from a centralized VMF control panel without area control panel



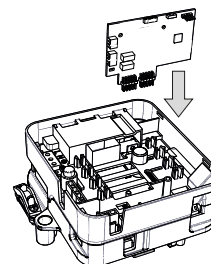
VMF-IR

User interface compatible with the AER503IR, VMF-E3 thermostat and with all the grids of cassettes equipped with the infrared receiver compatible with the VMF system.



VMF-LON

Expansion allowing the thermostat to interface with BMS systems that use the LON protocol.



VMF-SW

Water probe (L = 2.5m) used if required in place of the standard unit supplied with the VMF-E0X, VMF-E19 and VMF-E19I thermostats for mounting it upstream of the valve.



VMF-SW1

Additional water probe (L = 2.5m) to be used if required for 4-pipe systems with the VMF-E19 and VMF-E19I thermostats for maximum control in the cold range



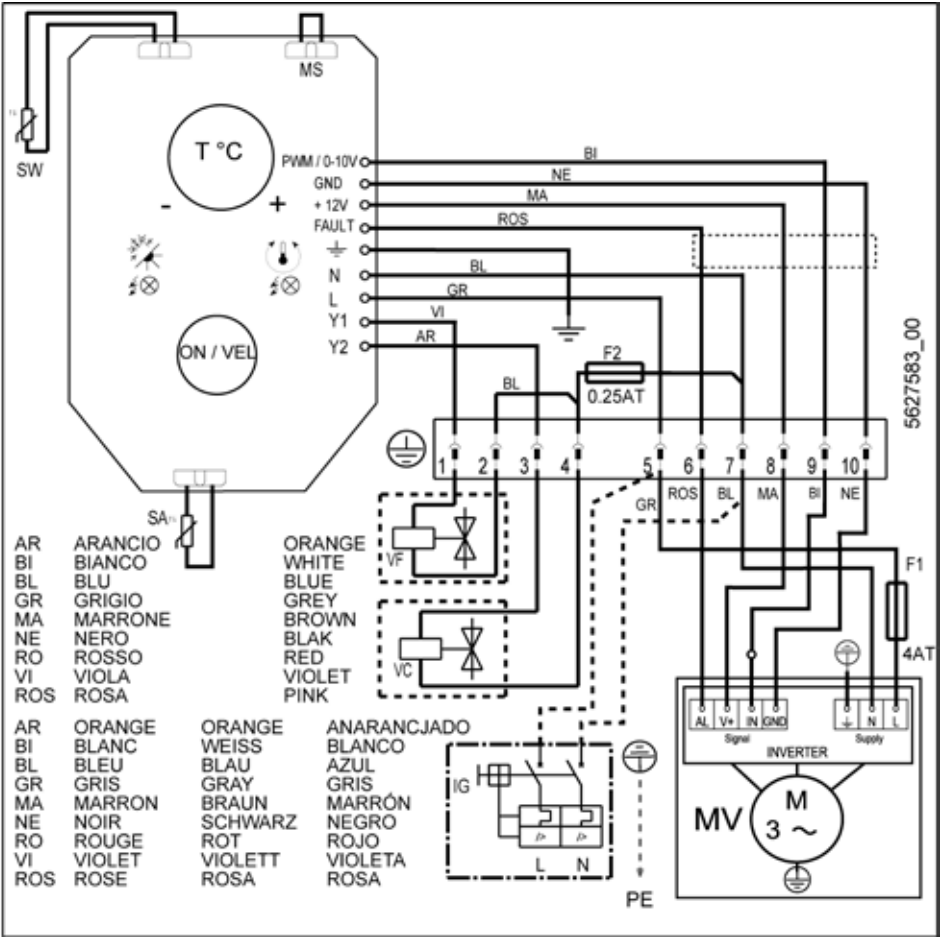
VMHI

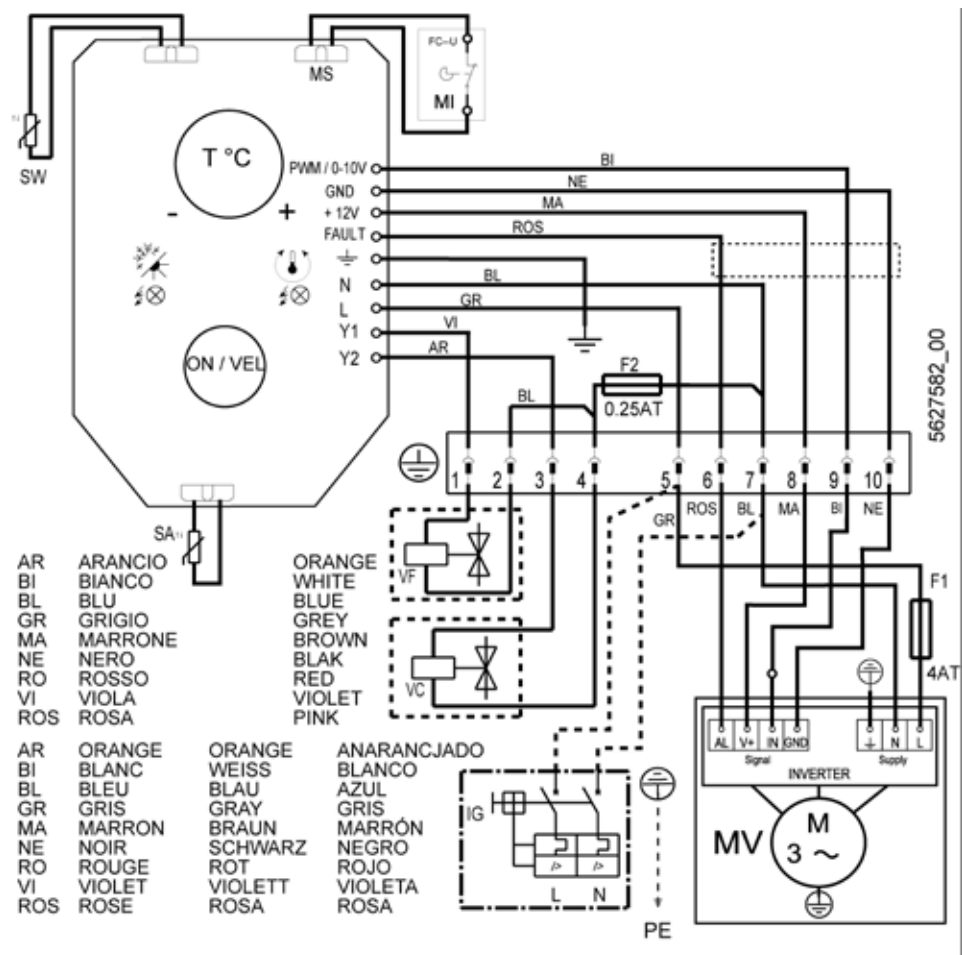
The VMHI panel can be used as a user interface for VMF-E0X/E19/E19I thermostats, GLFxN/M or GLLxN grids, or as an interface for the MZC system. What determines the function to be performed by the user interface is determined by its correct parametrisation and by following the electrical connections between interface and thermostat or interface and plenum.

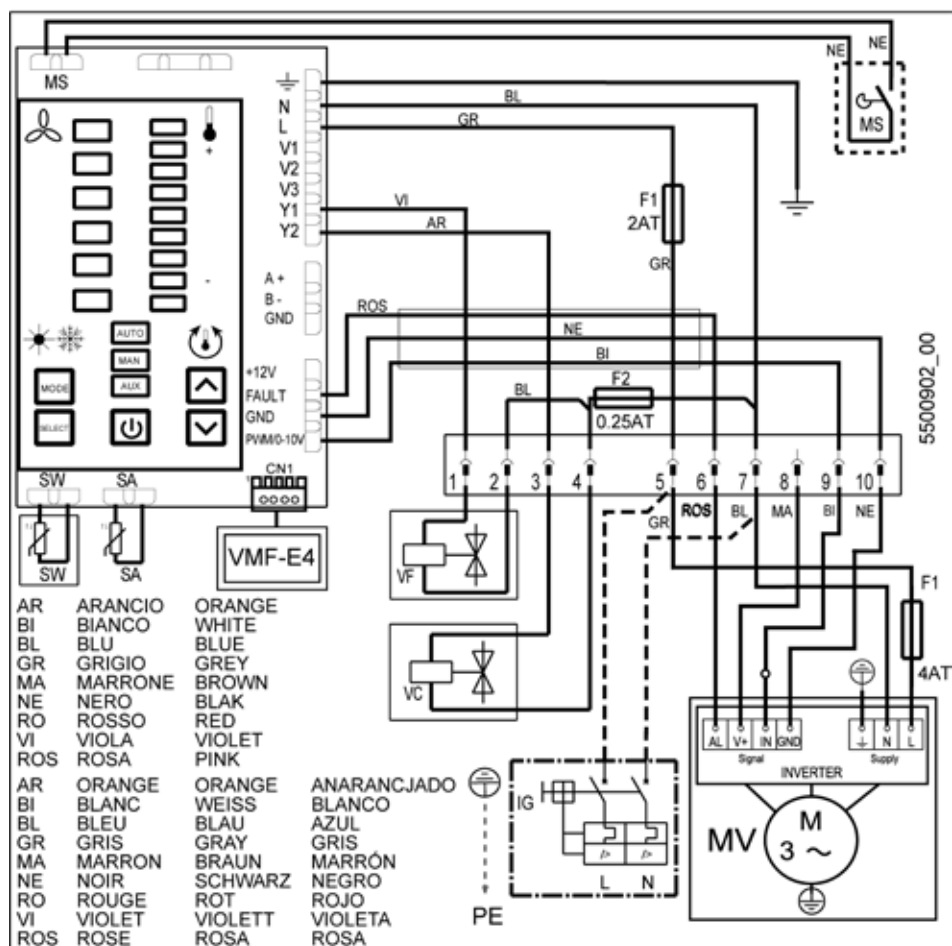
24.SCHEMI ELETTRICI • WIRING DIAGRAMS • SCHEMAS ELECTRIQUES • SCHALTPLÄNE • ESQUEMAS ELÉCTRICOS

	LEGENDA	READING KEY	LEGENDE	LEGENDE	LEYENDA
AL	Alimentatore 12V	Power supply 12V	Alimentation électrique 12V	Spannung 12V	Alimentador 12V
CE	Contatto esterno	External contact	Contact extérieur	Externer Kontakt	Contacto externo
EX					
CN	Connettore	Connector	Connecteur	Schütz	Conector
CRE	Contattore resistenza elettrica	Electric heater contactor	Contacteur résistance électrique	El. Heizregister-Schutz	Contactore de la resistencia eléctrica
F	Fusibile	Fuse	Fusible	Sicherung	Fusible
IG	Interruttore generale	Main switch	Interupteur général	Hauptschalter	Interruptor general
M	Morsettiera	Terminal board	Boîtier	Klemmleiste	Placa de bornes
ML	Motore aletta	Louvre motor	Moteur deflecteur	Motor- Umlenkklappe	Lamas motorizadas
MS	Microinterruttore griglia (Solo per i modelli che ne sono provvisti)	Louvre microswitch (Only for the appropriate models)	Micro-interrupteur grille (Uniquement pour les modèles qui en sont fournis)	Mikroschalter Gitter (Nur bei Modellen, die damit ausgestattet sind)	Microinterruptor de la rejilla de impulsión (Sólo para los modelos que lo incluyen)
MV	Motore ventilatore	Fan motor	Moteur ventilateur	Ventilatormotor	Motor del ventilador
PE					
GND	Collegamento a terra	Earth connection	Mise à terre	Erdanschluss	Toma de tierra
RE	Resistenza elettrica	Electric heater	Résistance électrique	Elt. Heizregister	Resistencia eléctrica
RX					
SA	Sonda ambiente	Room sensor	Sonde ambiante	Raumtemperaturfühler	Sonda ambiente
SC	Scheda di controllo	Electronic control board	Platine de contrôle	Steuerschaltkreis	Tarjeta electrónica de control
SW	Sonda minima temperatura acqua	Sonde minimum temp. eau	Water low temperature sensor	Wasserfühler	Sonda temperatura mínima del agua
TR	Trasformatore	Transformer	Transformateur	Transformator	Transformador
TSR	Termostato a riarmo automatico	Automatic resetting thermostat	Thermostat à réarmement automatique	Thermostat automatischer Entriegelung	Termostato de rearme automático
TSRM	Termostato a riarmo manuale	Manual resetting thermostat	Thermostat à réarmement manuel	Thermostat manueller Entriegelung	Termostato de rearme manual
VCF	Valvola solenoide	Solenoid valve	Vanne solenoide	Magnetventil	Válvula solenoide
VC	Valvola solenoide caldo	Solenoid valve hot	Vanne magnétique chaud	Magnetventil Heizbetrieb	Válvula solenoide para calor
VF	Valvola solenoide freddo	Solenoid valve cold	Vanne magnétique froid	Magnetventil Kühlbetrieb	Válvula solenoide para frío
	Componenti non forniti	Components not supplied	Composants non fournis	Nicht lieferbare Teile	Componentes no suministrados
	Componenti forniti optional	Optional components	Composants en option	Optionsteile	Componentes opcionales
	Collegamenti da eseguire in loco	On-site wiring	Raccordements à effectuer in situ	Vor Ort auszuführende Anschlüsse	Cableado in situ
AR	Arancio	Orange	Orange	Orange	Naranja
BI	Bianco	White	Blanc	Weiss	Blanco
BL	Blu	Blue	Bleu	Blau	Azul
GR	Grigio	Grey	Gris	Gray	Gris
MA	Marrone	Brown	Marron	Braun	Marrón
NE	Nero	Black	Noir	Schwarz	Negro
RO	Rosso	Red	Rouge	Rot	Rojo
VE	Verde	Green	Vert	Grün	Verde
VI	Viola	Violet	Violet	Violet	Violeta

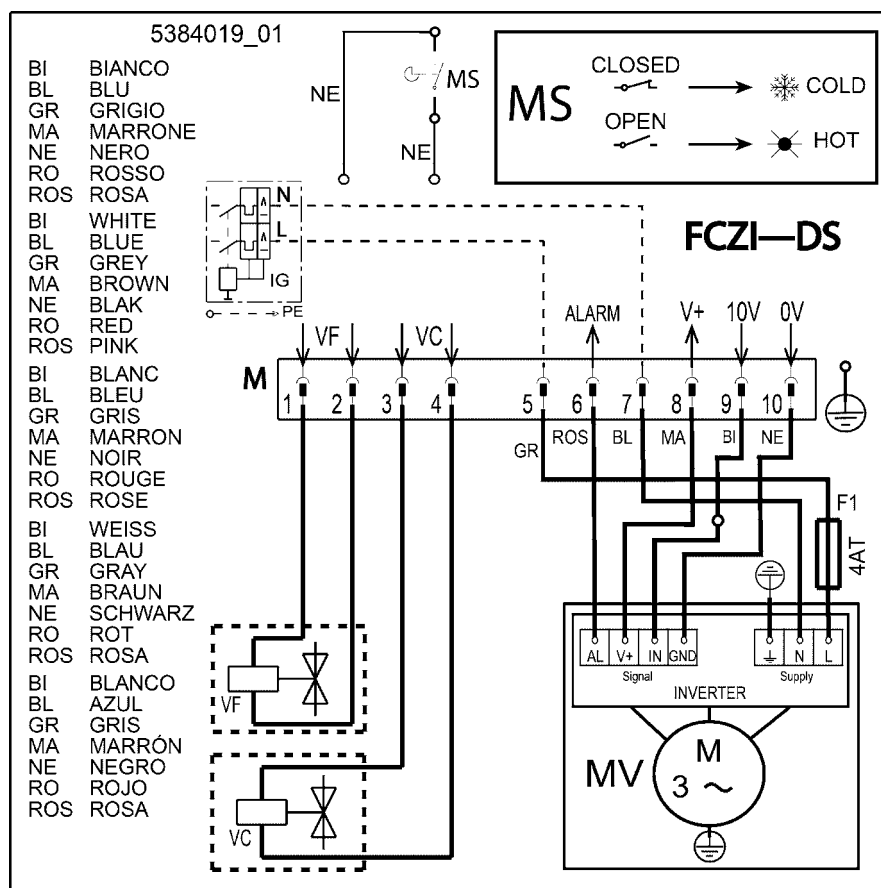
FCZI200-900ACT







FCZI200_500DS



Gli schemi elettrici sono soggetti ad un continuo aggiornamento, è obbligatorio quindi fare riferimento a quelli a bordo macchina.
 All wiring diagrams are constantly updated. Please refer to the ones supplied with the unit.
 Nos schémas électriques étant constamment mis à jour, il faut absolument se référer à ceux fournis à bord de nos appareils.
 Die Schaltpläne werden ständig aktualisiert, deswegen muss man sich stets auf das mit dem Gerät gelieferte Schaltschema beziehen.
 El cableado de las máquinas es sometido a actualizaciones constantes. Por favor, para cada unidad hagan referencia a los esquemas suministrados con la misma.



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Aermec reserves the right to make all modification deemed necessary for improving the product at any time with any modification of technical data.