

## FCZI SA P

Fan coils

Inverter Brushless motor

Concealed installation

Cooling capacity 0,7 ÷ 8,6 kW

Heating capacity 1,0 ÷ 17,1 kW



FCZI SA P  
FCZI SA PR

- **ELECTRIC SAVING EQUAL TO 50% COMPARED TO A FAN COIL WITH 3-SPEED MOTOR**
- **FULL COMFORT: REDUCED TEMPERATURE AND RELATIVE HUMIDITY OSCILLATIONS**

### FEATURES

Drawing from its wide experience in the field of fan coils, Aermec presents the new series FCZI SA P for duct installations.

They can be installed on any system with 2/4 pipe 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 control in built,**

**Instalación vertical y horizontal:**

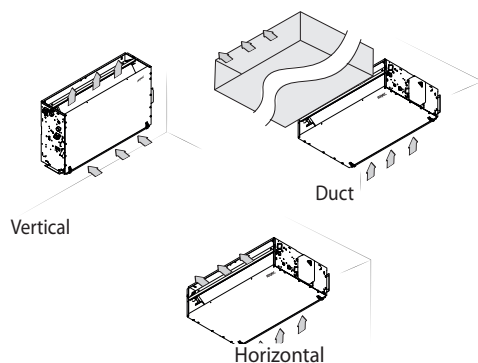
**FCZI SA P:** Colgante sin mueble.

**FCZI SA PR:** Reversibility of the hydraulic connections during the installation only for units with main coil, standard or oversized (not reversible for units with supplementary coil)

- 3-speed ventilating unit.
- Electric motors with permanently inserted condensers

- Low loss of charge in the heat exchanger
- Easy installation and maintenance
- Air filter G2 for all versions.
- Extractable shrouds for easy, effective cleaning

### VERSIONS DESCRIPTION



#### Versions

- **FCZI SA P**
- **FCZI SA PR**  
- 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.

## CHOOSING THE UNIT

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

### Description

#### FCZI SA

#### Size

2-3-4-5-7-9

#### Main coil

- 0 Standard
- 5 Oversized (1)

#### Supplementary coil

- 0 Without heat exchanger
- 1 Standard
- 2 Oversized

### Versions

- P** Wall/ceiling mounted without cabinet
  - PR** Wall/ceiling mounted without cabinet and hydraulic connections to the left
- Voltage**  
110V-240V - 50Hz/60Hz

(1) With increase coil "5" no coil can be fit with heat only "1 or 2"

## SIZE AVAILABLE FOR VERSION

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

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

## ACCESSORIES

### Probes and accessories for control panels

- **WMT21**: Electronic thermostat with LCD display (wall installation).
- **SWAI**: Water temperature probe for WMT21 control panels. Cable length L=2m.

### VMF system

- **VMF-E18X**: Thermostat for serial communication
- **VMF-E4**: Wall mounted user interface allowing control via a capacitive touch keyboard.
- **VMF-E5**: Wall recessed panel allowing control of a complete hydronic system via a capacitive touch keyboard.
- **VMF-SW**: water sensor replacing that supplied with VMF-E1 thermostats for installation upstream of the valve.
- **VMF-SW1**: additional water sensor for 4-pipe systems with E1 thermostats offering maximum control in the cooling range.

### Coil - Hot water

- **BV**: Single row hot water heat exchanger

### Kit water valve

- **VCZ\_X4**: Valve kits for single coil units, installed in 4 pipe systems with totally separated "Cooling" and "Heating" circuits. The kit consists of 2 valves with 3-way 4 port connection complete with electro-thermal actuators, insulating shells for the valves and associated hydraulic piping. The VCF1X4L valve kit allows left side connection
- **VCZ or VCF**: kit containing a motorised 3-way valve with insulating shell plus coupling and pipes in insulated copper. Applicable for standard or oversized main coil.
- **VCZD or VCFD**: Kit consisting of powered 2-way valve, copper Applicable for standard or oversized main coil.

- **VJP/VJP\_M**: Control and balancing combination valve for 2 and 4 pipe systems to install outside the unit, supplied without fittings and hydraulic components. The valve, can guarantee a constant water flow rate in the terminal, within its operating range.  
**The VJP is controlled by on-off logic** with compatible control panels (accessories)  
**The VJP\_M is controlled by modulating logic** with panels not supplied by Aermec  
**The design water flow rate is crucial to refine the selection of the valve shown in the compatibility table.**

### Installation accessoires

- **AMP**: kit for the wall mounting installation.
- **BC**: Auxiliary condensate drip tray.
- **CHF**: The VentilCassaforma is a galvanised sheet steel template, for P versions, which allows you to obtain a space for housing the fan coil, directly in the wall.
- **DSC4**: Condensate drainage device for use when natural run-off is not possible.
- **PA**: Galvanised sheet steel intake plenum equipped with intake fittings for circular section ducts.
- **PA-F**: Intake plenum, which allows recovery and flow on the same side. It is suitable for all those installations outside air-conditioned rooms, in order to minimise noise and facilitate maintenance operations.
- **PM**: Galvanised sheet steel flow plenum, externally insulated, equipped with plastic flow fittings for ducts and circular sections.
- **RD**: Straight flow fitting for ducting.
- **RDA**: Straight intake fitting for ducting.
- **RP**: 90° flow fitting for ducting
- **RPA**: 90° intake fitting for ducting.

### Plenum and accessoires for ducting

- **MZC**: Plenum with motor-driven dampers
- **RDA\_V**: Straight intake connection with rectangular flange.
- **RDAC\_V**: Straight intake connection with circular flanges.
- **RPA\_V**: Intake plenum with rectangular flange.
- **RDMC\_V**: Straight discharge with circular flanges. Internally insulated.
- **PA\_V**: Intake plenum with circular flanges. Flanges in plastic material.
- **RPM\_V**: Discharge plenum with rectangular flange. Internally insulated.
- **PM\_V**: Discharge plenum with circular flanges. Internally insulated. Flanges in plastic material.
- **KFV10**: Circular flanges kit for intake/discharge plenum.

### Grid

- **GA**: Intake grid with fixed louvers.
- **GAF**: Intake grid with fixed louvers with filter.
- **GM**: Flow grid with adjustable louvers.

For more details on the control panels and VMF system refer to the dedicated sheet

## Compatibility of accessories

FCZI SA P/PR	V	Hz	Single coil models												
			200	250	300	350	400	450	500	550	700	750	900	950	
<b>Probes and accessories for control panels</b>															
WMT21	24/230	50	•	•	•	•	•	•	•	•	•	•	•	•	•
SWAI	In combination with WMT21														
<b>VMF System</b>															
VMF-E18X	230	50/60	•	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4	5	dc	•	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E5	24	50/60	•	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW			•	•	•	•	•	•	•	•	•	•	•	•	•
VMF-SW1			•	•	•	•	•	•	•	•	•	•	•	•	•
<b>Additional coil (heating only)</b>															
BV122			•												
BV132					•										
BV142								•		•					
BVZ800												•			
BV162														•	
<b>Water valves*</b>															
<b>Valve Kit for 4 pipe systems with Main coil</b>															
VCZ1X4L-R	230	50/60	•	•											
VCZ2X4L-R	230	50/60			•	•	•	•	•	•	•	•	•		
VCZ3X4L-R	230	50/60												•	•
<b>3 way valve kit</b>															
VCZ41	230	50/60	•	•											
VCZ42	230	50/60			•	•	•	•	•	•	•	•	•		
VCZ43	230	50/60												•	•
VCZ41/4124	24	50/60	•	•											
VCZ42/4224	24	50/60			•	•	•	•	•	•	•	•	•		
VCZ43/4324	24	50/60												•	•
<b>2 way valve kit</b>															
VCZD1	230	50/60	•	•											
VCZD2	230	50/60			•	•	•	•	•	•	•	•	•		
VCZD3	230	50/60												•	•
VCZD1/124	24	50/60	•	•											
VCZD2/224	24	50/60			•	•	•	•	•	•	•	•	•		
VCZD3/324	24	50/60												•	•
<b>Combined adjustment and balancing valve independent of pressure**</b>															
VJP060	230	50/60	•	•	•	•									
VJP090	230	50/60					•	•	•	•					
VJP150	230	50/60										•	•	•	•
VJP060M	24	50/60	•	•	•	•									
VJP090M	24	50/60					•	•	•	•					
VJP150M	24	50/60										•	•	•	•
<b>Installation accessories</b>															
AMP20			•	•	•	•	•	•	•	•	•				
AMPZ			•	•	•	•	•	•	•	•	•	•	•	•	•
DSC4	230	50/60	(1)	•	•	•	•	•	•	•	•	•	•	•	•
ZX7				•	•	•	•	•	•	•	•				
ZX8												•	•	•	•
<b>Auxiliary condensate drip tray</b>															
BC4		(2)	•	•	•	•	•	•	•	•	•	•	•		
BC5		(3)	•	•	•	•	•	•	•	•	•	•	•		
BC6		(3)												•	•
BC8		(3)	•	•	•	•	•	•	•	•	•	•	•		
BC9		(3)												•	•

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) DSC4 It's not available with AMPZ

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

(3) For horizontal installation

## Compatibility of accessories

FCZI SA P/PR	V	Hz	Single coil models											
			200	250	300	350	400	450	500	550	700	750	900	950
<b>Ventilcassaforma</b>														
CHF22			•	•										
CHF32					•	•								
CHF42								•	•	•	•			
CHF62												•	•	•
<b>Grille</b>														
GA22			•	•										
GA32					•	•								
GA42								•	•	•	•			
GA62												•	•	•
GAF22			•	•										
GAF32					•	•								
GAF42								•	•	•	•			
GAF62												•	•	•
GM22			•	•										
GM32					•	•								
GM42								•	•	•	•			
GM62												•	•	•
<b>Accessoires for installation</b>														
PA22			•	•										
PA32					•	•								
PA42								•	•	•	•			
PA62												•	•	•
PA22F			•	•										
PA32F					•	•								
PA42F								•	•	•	•			
PA62F												•	•	•
PM22			•	•										
PM32					•	•								
PM42								•	•	•	•			
PM62												•	•	•
RD22			•	•										
RD32					•	•								
RD42								•	•	•	•			
RD62												•	•	•
RDA22			•	•										
RDA32					•	•								
RDA42								•	•	•	•			
RDA62												•	•	•
RPA17														
RPA22			•	•										
RPA32					•	•								
RPA42								•	•	•	•			
RPA62												•	•	•
<b>Plenum for duct installation</b>														
MZC220			•	•										
MZC320					•	•								
MZC530								•	•	•	•			
MZC830												•	•	•
RDA000V			•	•										
RDA100V					•	•								
RDA200V								•	•	•	•			
RDA300V												•	•	•
RPA000V			•	•										
RPA100V					•	•								
RPA200V								•	•	•	•			
RPA300V												•	•	•
RDAC000V			•	•										
RDAC100V					•	•								
RDAC200V								•	•	•	•			
RDAC300V												•	•	•

## Compatibility of accessories

FCZI SA P/PR	Single coil models											
	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									•	•	•	•

FCZI SA P	V	Hz	Twin coil models										
			201	202	301	302	401	402	501	502	701	702	901
<b>Probes and accessories for control panels</b>													
WMT21	24/230	50	•	•	•	•	•	•	•	•	•	•	•
SWAI			In combination with WMT21										
<b>VMF System</b>													
VMF-E18X	230	50/60	•	•	•	•	•	•	•	•	•	•	•
VMF-E4	5	dc	•	•	•	•	•	•	•	•	•	•	•
VMF-E5	24	50/60	•	•	•	•	•	•	•	•	•	•	•
VMF-SW			•	•	•	•	•	•	•	•	•	•	•
VMF-SW1			•	•	•	•	•	•	•	•	•	•	•
<b>Water valves*</b>													
<b>3 way valve kit</b>													
VCZ41/4124	230	50/60	•	•									
VCZ42/4224	230	50/60			•	•	•	•	•	•	•	•	•
VCZ43/4324	230	50/60											•
<b>2 way valve kit</b>													
VCZD1	230	50/60	•	•									
VCZD2	230	50/60			•	•	•	•	•	•	•	•	•
VCZD3	230	50/60											•
VCZD1/124	24	50/60	•	•									
VCZD2/224	24	50/60			•	•	•	•	•	•	•	•	•
VCZD3/324	24	50/60											•
<b>Combined adjustment and balancing valve independent of pressure**</b>													
VJP060	230	50/60	•	•	•	•							
VJP090	230	50/60					•	•	•	•			
VJP150	230	50/60									•	•	•
VJP060M	24	50/60	•	•	•	•							
VJP090M	24	50/60					•	•	•	•			
VJP150M	24	50/60									•	•	•
<b>3 way valve kit for heating coil only</b>													
VCF44	230	50/60	•	•	•	•	•	•	•	•	•	•	•
VCF45	230	50/60											•
VCF44/4424	24	50/60	•	•	•	•	•	•	•	•	•	•	•
VCF45/4524	24	50/60											•
<b>2 way valve kit for heating coil only</b>													
VCFD4/424			•	•	•	•	•	•	•	•	•	•	•
<b>Accessoires for installation</b>													
AMP20			•	•	•	•	•	•	•	•	•	•	•
AMPZ			•	•	•	•	•	•	•	•	•	•	•
DSC4	230	50/60 (1)	•	•	•	•	•	•	•	•	•	•	•
ZX7			•	•	•	•	•	•	•	•	•	•	•
ZX8											•	•	•

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) DSC4 It's not available with AMPZ

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

(3) For horizontal installation

## Compatibility of accessories

FCZISA P	V	Hz	Twin coil models											
			201	202	301	302	401	402	501	502	701	702	901	
<b>Auxiliary condensate drip tray</b>														
BC4		(2)	•	•	•	•	•	•	•	•	•	•	•	
BC5		(3)	•	•	•	•	•	•	•	•	•	•	•	
BC6		(3)												•
BC8		(3)	•	•	•	•	•	•	•	•	•	•	•	
BC9		(3)												•
<b>Ventilcassaforma</b>														
CHF22			•	•										
CHF32					•	•								
CHF42								•	•	•	•			
CHF62												•	•	•
<b>Grid</b>														
GA22			•	•										
GA32					•	•								
GA42								•	•	•	•			
GA62												•	•	•
GAF22			•	•										
GAF32					•	•								
GAF42								•	•	•	•			
GAF62												•	•	•
GM22			•	•										
GM32					•	•								
GM42								•	•	•	•			
GM62												•	•	•
<b>Accessoires for installation</b>														
PA22			•	•										
PA32					•	•								
PA42								•	•	•	•			
PA62												•	•	•
PA22F			•	•										
PA32F					•	•								
PA42F								•	•	•	•			
PA62F												•	•	•
PM22			•	•										
PM32					•	•								
PM42								•	•	•	•			
PM62												•	•	•
RD22			•	•										
RD32					•	•								
RD42								•	•	•	•			
RD62												•	•	•
RDA22			•	•										
RDA32					•	•								
RDA42								•	•	•	•			
RDA62												•	•	•
RPA22			•	•										
RPA32					•	•								
RPA42								•	•	•	•			
RPA62												•	•	•
<b>Plenum for duct installation</b>														
MZC220			•	•										
MZC320					•	•								
MZC530								•	•	•	•			
MZC830												•	•	•

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\* 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

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(3) For horizontal installation

## Compatibility of accessories

	Twin coil models										
FCZI SA P	201	202	301	302	401	402	501	502	701	702	901
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									•	•	•

## Technical data Unit for 2 pipe systems (main coil)

FCZI SA P/PR	200			250			300			350			400			450			
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	
<b>Heating Performance</b>																			
<b>2 pipe systems</b>																			
Heating capacity (70°C) (1) kW	3,70	2,95	2,02	4,05	3,18	2,20	5,50	4,46	3,47	6,15	4,92	3,77	7,15	5,74	4,32	7,82	6,29	4,57	
Water flow rate (1) l/h	318	253	173	348	273	189	473	383	298	529	423	324	615	493	371	672	532	393	
Pressure drop (1) kPa	20	13	7	31	20	11	17	12	7	28	19	12	32	21	11	22	13	9	
Heating capacity (45°C) (2) kW	1,84	1,46	1,00	2,01	1,58	1,09	2,73	2,21	1,72	3,06	2,44	1,87	3,55	2,85	2,14	3,88	3,12	2,27	
Water flow rate (2) l/h	319	254	174	350	274	190	475	385	299	531	425	325	617	495	373	675	543	394	
Pressure drop (2) kPa	17	12	6	22	15	8	17	12	8	20	14	8	23	16	9	16	11	6	
<b>Cooling Performance</b>																			
Total cooling capacity (3) kW	1,60	1,28	0,89	1,94	1,55	1,06	2,65	2,17	1,68	3,02	2,46	1,89	3,60	2,92	2,21	4,03	3,21	2,41	
Sensible cooling capacity (3) kW	1,33	1,05	0,71	1,52	1,20	0,79	2,04	1,65	1,26	2,18	1,76	1,33	2,67	2,14	1,59	2,90	2,30	1,69	
Water flow rate (3) l/h	275	221	153	334	267	182	456	374	288	560	460	350	619	503	379	694	552	414	
Pressure drop (3) kPa	18	12	6	25	17	8	18	12	8	25	17	11	24	16	10	22	15	9	
<b>Fans</b>																			
Centrifugal Fans	n°	1						2						2					
Air flow rate	m³/h	290	220	140	290	220	140	450	350	260	450	350	260	600	460	330	600	460	330
<b>Sound level</b>																			
Sound power level	dB(A)	50	43	31	50	43	31	48	41	34	48	41	34	51	44	37	51	44	37
Sound pressure level	dB(A)	42	35	23	42	35	23	40	33	26	40	33	26	43	36	29	43	36	29
<b>Hydraulic connections</b>																			
<b>Main coil</b>																			
Standard	Ø	1/2"			/			3/4"			/			3/4"			/		
Oversized	Ø	/			1/2"			/			3/4"			/			3/4"		
<b>Electrical data</b>																			
Power supply	110V-240V - 50Hz/60Hz																		

FCZI SA P/PR	500			550			700			750			900			950			
Fan speed	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	
<b>Heating Performance</b>																			
<b>2 pipe systems</b>																			
Heating capacity (70°C) (1) kW	8,50	7,31	5,27	9,75	8,34	5,82	11,00	9,80	8,10	12,50	11,30	9,10	15,14	13,35	10,77	17,10	14,42	11,20	
Water flow rate (1) l/h	731	629	453	838	717	500	946	843	696	1075	972	782	1328	1171	945	1500	1295	982	
Pressure drop (1) kPa	42	42	42	33	25	14	37	30	21	20	16	11	21	16	11	32	23	15	
Heating capacity (45°C) (2) kW	4,22	3,63	2,62	4,85	4,14	2,89	5,47	4,87	4,03	6,21	5,62	4,52	7,53	6,64	5,35	8,50	7,17	5,57	
Water flow rate (2) l/h	734	631	455	842	720	502	950	846	699	1079	975	786	1307	1152	930	1476	1245	967	
Pressure drop (2) kPa	28	21	12	25	19	10	29	23	16	17	14	10	21	17	12	33	24	15	
<b>Cooling Performance</b>																			
Total cooling capacity (3) kW	4,25	3,69	2,68	4,79	4,13	2,91	5,50	4,89	3,92	6,14	5,34	4,27	6,91	5,00	4,29	8,60	7,32	5,77	
Sensible cooling capacity (3) kW	3,18	2,73	1,94	3,49	2,98	2,07	4,30	3,76	2,99	4,72	4,05	3,20	5,68	3,78	2,97	5,78	4,87	3,80	
Water flow rate (3) l/h	731	634	460	824	711	501	946	841	675	1056	918	734	1189	860	738	1479	1259	992	
Pressure drop (3) kPa	29	22	13	28	21	11	30	24	16	18	14	10	22	12	9	30	22	15	
<b>Fans</b>																			
Centrifugal Fans	n°	2						3						3					
Air flow rate	m³/h	720	600	400	720	600	400	1140	930	700	1140	930	700	1140	930	700	1140	930	700
<b>Sound level</b>																			
Sound power level	dB(A)	56	51	42	56	51	42	62	57	50	62	57	50	62	57	51	61	57	51
Sound pressure level	dB(A)	48	43	34	48	43	34	54	49	42	54	49	42	54	49	43	53	49	43
<b>Hydraulic connections</b>																			
<b>Main coil</b>																			
Standard	Ø	3/4"			/			3/4"			/			3/4"			/		
Oversized	Ø	/			3/4"			/			3/4"			/			3/4"		
<b>Electrical data</b>																			
Power supply	110V-240V - 50Hz/60Hz																		

(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

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

Sound pressure level (A-weighted) measured indoors with volume V=85m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

## Technical data Unit for 2 pipe systems (main coil)

FCZI SA P			201			301			401		
Fan speed			H	M	L	H	M	L	H	M	L
<b>Heating Performance</b>											
<b>4 pipe systems</b>											
Heating capacity (65°C)	(1)	kW	1,61	1,36	1,02	2,56	2,19	1,81	3,13	2,65	2,13
Water flow rate	(1)	l/h	138	117	88	221	188	155	269	228	183
Pressure drop	(1)	kPa	10	7	5	29	22	15	8	7	4
<b>Cooling Performance</b>											
Total cooling capacity	(2)	kW	1,60	1,28	0,89	2,65	2,17	1,68	3,60	2,92	2,21
Sensible cooling capacity	(2)	kW	1,33	1,05	0,71	2,04	1,65	1,26	2,67	2,14	1,59
Water flow rate	(2)	l/h	275	221	153	456	374	288	619	503	379
Pressure drop	(2)	kPa	18	12	6	18	12	8	24	16	10
<b>Fans</b>											
Centrifugal fans	n°		1			2			2		
Air flow rate	m³/h		290	220	140	450	350	260	600	460	330
<b>Sound level</b>											
Sound power level	dB(A)		50	43	31	48	41	34	51	44	39
Sound pressure level	dB(A)		42	35	23	40	33	26	43	36	31
<b>Hydraulic connection</b>											
Main coil	Ø		1/2"			3/4"			3/4"		
Additional coil	Ø		1/2"			1/2"			1/2"		
<b>Electrical data</b>											
Power supply	110V-240V - 50Hz/60Hz										

FCZI SA P			501			701			901		
Fan speed			H	M	L	H	M	L	H	M	L
<b>Heating Performance</b>											
<b>4 pipe systems</b>											
Heating capacity (65°C)	(1)	kW	3,74	3,34	2,59	4,95	4,29	3,66	5,73	5,63	4,74
Water flow rate	(1)	l/h	321	287	223	426	369	315	493	484	407
Pressure drop	(1)	kPa	10	8	5	20	16	15	12	11	9
<b>Cooling Performance</b>											
Total cooling capacity	(2)	kW	4,25	3,69	2,68	5,50	4,89	3,92	6,91	5,00	4,29
Sensible cooling capacity	(2)	kW	3,18	2,73	1,94	4,30	3,76	2,99	5,68	3,78	2,97
Water flow rate	(2)	l/h	731	634	460	946	841	675	1189	860	738
Pressure drop	(2)	kPa	29	22	13	30	24	16	22	12	9
<b>Fans</b>											
Centrifugal fans	n°		2			3			3		
Air flow rate	m³/h		720	600	400	1140	930	700	1140	930	700
<b>Sound level</b>											
Sound power level	dB(A)		56	51	42	61	57	51	61	57	51
Sound pressure level	dB(A)		48	43	34	53	49	43	53	49	43
<b>Hydraulic connection</b>											
Main coil	Ø		3/4"			3/4"			3/4"		
Additional coil	Ø		1/2"			1/2"			1/2"		
<b>Electrical data</b>											
Power supply	V/ph/Hz		110V-240V - 50Hz/60Hz								

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

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

Sound pressure level (A-weighted) measured indoors with volume V=85m³, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

## Technical data Unit for 2 pipe systems (main coil)

FCZI SA P/PR		200			250			300			350			400			450		
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
<b>Heating Performance</b>																			
<b>2 pipe systems</b>																			
Heating capacity (70°C)	(1) kW	3,34	3,16	1,81	3,62	3,40	2,01	5,23	4,83	3,08	5,83	5,43	3,32	6,34	5,85	3,96	6,96	6,44	4,10
Water flow rate	(1) l/h	287	272	156	311	292	173	450	415	265	502	467	285	545	503	341	599	554	353
Pressure drop	(1) kPa	16	13	6	19	17	7	16	14	7	19	17	7	19	17	9	13	12	5
Heating capacity (45°C)	(2) kW	1,66	1,57	0,9	1,8	1,69	1	2,6	2,4	1,53	2,9	2,7	1,65	3,15	2,91	1,97	3,46	3,2	2,04
Water flow rate	(2) l/h	285	270	155	310	291	172	447	413	263	499	464	284	542	500	339	595	550	351
Pressure drop	(2) kPa	16	13	6	19	17	7	16	14	7	19	17	7	19	17	9	13	12	5
<b>Cooling Performance</b>																			
Total cooling capacity	(3) kW	1,45	1,37	0,80	1,76	1,67	0,95	2,53	2,38	1,40	2,88	2,70	1,66	3,21	2,98	2,03	3,55	3,28	2,22
Sensible cooling capacity	(3) kW	1,20	1,13	0,63	1,37	1,29	0,70	1,94	1,82	1,10	2,07	1,94	1,15	2,36	2,18	1,45	2,56	2,35	1,54
Water flow rate	(3) l/h	249	236	138	303	287	163	435	409	241	495	464	285	552	512	349	610	564	382
Pressure drop	(3) kPa	16	14	8	21	19	10	17	15	9	23	21	11	20	13	11	18	16	11
<b>Fans</b>																			
Centrifugal fans	n°	1						2						2					
Air flow rate	m³/h	257	240	123	257	240	123	424	390	225	424	390	225	515	470	300	515	470	300
High static pressure	Pa	57	50	13	57	50	13	59	50	16	53	50	16	60	50	20	56	50	20
<b>Sound level</b>																			
Sound Power (Inlet+Radietor)	dB(A)	59	57	37	59	57	37	53	50	36	53	50	36	55	53	43	55	53	43
Sound Power (Outlet)	dB(A)	55	53	33	55	53	33	49	47	32	49	47	32	52	49	39	52	49	39
<b>Hydraulic connections</b>																			
<b>Main coil</b>																			
Standard	Ø	1/2"			/			3/4"			/			3/4"			/		
Oversized	Ø	/			1/2"			/			3/4"			/			3/4"		
<b>Electrical data</b>																			
Power supply		110V-240V - 50Hz/60Hz																	

FCZI SA P/PR		500			550			700			750			900			950		
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L
<b>Heating Performance</b>																			
<b>2 pipe systems</b>																			
Heating capacity (70°C)	(1) kW	7,63	7,28	5,39	8,71	8,37	5,92	8,88	8,34	5,33	10,15	9,52	6,17	11,87	11,15	6,58	12,66	11,63	6,68
Water flow rate	(1) l/h	656	626	464	749	720	509	779	732	468	890	835	541	1021	958	566	1088	1000	574
Pressure drop	(1) kPa	23	22	12	21	20	11	20	17	8	12	11	5	14	13	5	19	17	6
Heating capacity (45°C)	(2) kW	3,79	3,62	2,68	4,33	4,16	2,94	4,40	4,15	2,67	5,00	4,69	2,46	5,90	5,54	3,27	6,29	5,78	3,32
Water flow rate	(2) l/h	652	623	461	745	715	506	767	720	460	860	806	418	1015	953	562	1082	994	571
Pressure drop	(2) kPa	23	22	12	21	20	11	20	17	8	12	10	3	14	13	5	19	17	6
<b>Cooling Performance</b>																			
Total cooling capacity	(3) kW	3,84	3,68	2,73	4,31	4,15	2,97	4,30	4,00	2,20	4,70	4,41	2,60	5,20	4,80	2,81	6,46	6,00	3,58
Sensible cooling capacity	(3) kW	2,85	2,73	1,98	3,12	2,98	2,11	3,20	3,00	1,71	3,50	3,30	1,90	3,90	3,60	2,10	4,27	3,94	2,33
Water flow rate	(3) l/h	660	633	469	741	714	511	739	688	378	818	760	447	894	825	483	1111	1032	616
Pressure drop	(3) kPa	25	22	13	24	21	12	20	18	6	12	10	4	13	12	20	18	16	12
<b>Fans</b>																			
Centrifugal fans	n°	2						3						3					
Air flow rate	m³/h	630	600	410	630	600	410	799	730	405	799	730	405	799	730	405	799	730	405
High static pressure	Pa	55	50	23	55	50	23	60	50	15	60	50	15	60	50	15	60	50	15
<b>Sound level</b>																			
Sound Power (Inlet+Radietor)	dB(A)	57	56	45	57	56	45	58	55	44	58	55	44	58	55	44	58	55	44
Sound Power (Outlet)	dB(A)	52	52	42	52	52	42	54	51	40	54	51	40	54	51	40	54	51	40
<b>Hydraulic connections</b>																			
<b>Main coil</b>																			
Standard	Ø	3/4"			/			3/4"			/			3/4"			/		
Oversized	Ø	/			3/4"			/			3/4"			/			3/4"		
<b>Electrical data</b>																			
Power supply	V/ph/Hz	110V-240V - 50Hz/60Hz																	

(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

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

Sound pressure level (A-weighted) measured indoors with volume V=85m<sup>3</sup>, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

## Technical data Unit for 2 pipe systems (main coil)

FCZI SA P		201			301			302			401			402			
Fan speed		H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	
<b>Heating Performance</b>																	
<b>4 pipe systems</b>																	
Heating capacity (65°C)	(1)	kW	1,49	1,42	0,94	2,47	2,34	1,60	4,14	3,89	2,54	2,85	2,69	1,99	4,73	4,42	3,11
Water flow rate	(1)	l/h	128	122	81	212	201	138	356	334	218	245	231	171	407	380	267
Pressure drop	(1)	kPa	9	9	4	13	12	6	21	19	9	8	7	4	6	6	3
<b>Cooling Performance</b>																	
Total cooling capacity	(2)	kW	1,45	1,37	0,80	2,53	2,38	1,40	2,53	2,38	1,40	3,21	2,98	2,03	3,21	2,98	2,03
Sensible cooling capacity	(2)	kW	1,20	1,13	0,63	1,94	1,82	1,10	1,94	1,82	1,10	2,36	2,18	1,45	2,36	2,18	1,45
Water flow rate	(2)	l/h	249	236	138	435	409	241	435	409	241	552	512	349	552	512	349
Pressure drop	(2)	kPa	16	14	5	17	15	7	17	15	7	20	13	9	20	13	9
<b>Fans</b>																	
Centrifugal fans	n°		1			2			2			2					
Air flow rate	m³/h		257	226	148	424	390	225	424	390	225	515	470	300	515	470	300
High static pressure	Pa		57	50	21	59	50	16	59	50	16	60	50	20	60	50	20
<b>Sound level</b>																	
Sound Power (Inlet+Radietor)	dB(A)		59	56	41	53	50	36	53	50	36	55	53	43	55	53	43
Sound Power (Outlet)	dB(A)		55	52	37	49	47	32	49	47	32	52	49	39	52	49	39
<b>Hydraulic connections</b>																	
Main coil	Ø		1/2"			3/4"			3/4"			3/4"					
Additional coil	Ø		1/2"			1/2"			1/2"			1/2"			1/2"		
<b>Electrical data</b>																	
Power supply			110V-240V - 50Hz/60Hz														

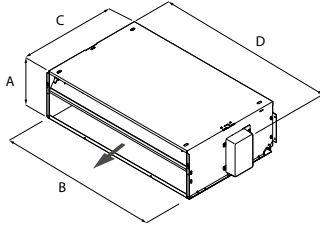
FCZI SA P		501			701			901			
Fan speed		H	M	L	H	M	L	H	M	L	
<b>Heating Performance</b>											
<b>4 pipe systems</b>											
Heating capacity (65°C)	(1)	kW	3,45	3,59	2,62	3,92	3,70	3,17	5,47	5,09	3,17
Water flow rate	(1)	l/h	297	309	225	337	318	273	470	438	273
Pressure drop	(1)	kPa	9	9	6	13	12	4	11	10	4
<b>Cooling Performance</b>											
Total cooling capacity	(2)	kW	3,84	3,68	2,73	4,30	4,00	2,20	5,24	4,80	2,80
Sensible cooling capacity	(2)	kW	2,85	2,73	1,98	3,20	3,00	1,71	3,90	3,60	2,10
Water flow rate	(2)	l/h	660	633	469	739	688	378	901	825	482
Pressure drop	(2)	kPa	25	23	13	20	18	6	13	12	5
<b>Fans</b>											
Centrifugal fans	n°		2			3			3		
Air flow rate	m³/h		630	600	410	799	730	405	799	730	405
High static pressure	Pa		55	50	23	60	50	15	60	50	15
<b>Sound level</b>											
Sound Power (Inlet+Radietor)	dB(A)		57	56	45	58	55	44	58	55	44
Sound Power (Outlet)	dB(A)		52	52	42	54	51	40	54	51	40
<b>Hydraulic connections</b>											
Main coil	Ø		3/4"			3/4"			3/4"		
Additional coil	Ø		1/2"			1/2"			1/2"		
<b>Electrical data</b>											
Power supply		V/ph/Hz	110V-240V - 50Hz/60Hz								

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

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

Sound pressure level (A-weighted) measured indoors with volume V=85m<sup>3</sup>, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m

## Dimensions and Weights



FCZI SA P/PR		200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	/	950
<b>Dimensions for all versions</b>																									
A	mm	216				216				216				216				216				216			
B	mm	522				753				973				973				1122				1122			
C	mm	453				453				453				453				453				558			
D	mm	562				793				1013				1013				1147				1147			
Weight	kg	12	13	14	14	14	15	16	16	20	21	22	22	23	23	24	24	26	27	28	28	32			