

FCZI P

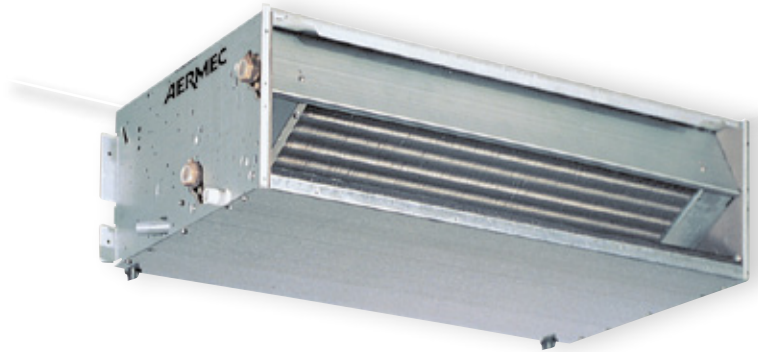
Fan coils with Inverter Brushless motor (EC)
Concealed installation



Aermec is participating in the EUROVENT Program : FCH The related products can be found at the website www.eurovent-certification.com

Variable Multi Flow®

VMF



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

Caratteristiche

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

The inverter motor allows precise adaptation to the real indoor environment requirements without temperature oscillations.

The air flow can be continuously changed through a 1-10 V signal, coming from adjustment and control commands Aermec or from independent adjustment systems. This lowers noise and generates a better response to heat loads and a higher stability in the desired temperature inside the room.

The high efficiency even with low speed, makes it

possible to reduce power consumption (more than 50% less than fan coils with traditional motors). In term of noise, in any operating condition exceptional values have been observed.

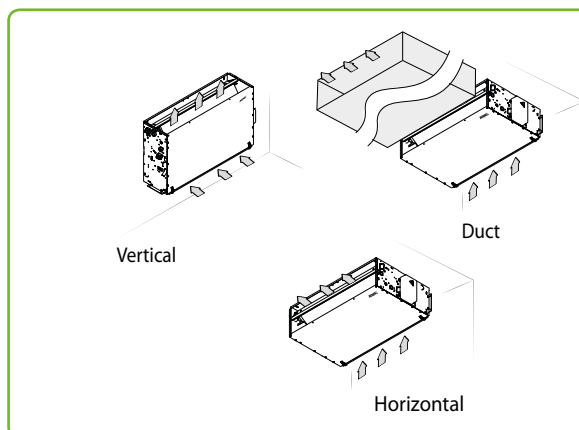
They can be installed on any system with 2/4 pipe and it fits with any heat generator even at low temperatures, and thanks to varied versions and settings, it is easy to pick the ideal solution for any need.

Versions without control in built,

**Vertical or horizontal installation:
FCZI_P**

- Brushless motor with 0-100% speed continuous variation to guarantee best performance at very low sound level
- Low loss of charge in the heat exchanger
- Easy installation and maintenance
- Air filter **G2** for all versions.
- Extractable shrouds for easy, effective cleaning
- Possibility to choose the hydraulic connection side through the different configurable versions (Not reversible for secondary battery units).

Versions Description



Versions

- **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.

Choosing the unit

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

Field	Code	7,8	Versions
1,2,3	FCZI		P Wall/ceiling mounted without cabinet
4	Size		PR Wall/ceiling mounted without cabinet and hydraulic connections to the left
	2-3-4-5-7-9		
5	Maincoil		
	0 Standard		
	5 Oversized (1)		
6	Supplementary coil		
	0 Without heat exchanger		
	1 Standard		
	2 Oversized		

(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	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	.	.	.	.	.	.	.	.	.	.	.	.

Accessories

Control panel

A range of dedicated controls, wall-mounted or on the machine, is available but it is essential to choose between these panels for simple and complete tuning, for more details please refer to the dedicated sheet.

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-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-E18:** Thermostat for serial communication
- **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. Available with 230V and 24V~50Hz power supply.
- **VCZD or VCFD: Kit consisting of powered 2-way valve, copper** Applicable for standard or oversized main coil. Available with 230V and 24V~50Hz power supply.
- **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, which can guarantee a constant water flow rate in the terminal, within its operating range, is available with 230V and 24V~50Hz power supply.
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.

Grid

- **GA:** Intake grid with fixed louvers.

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

Plenum and accessoires for ducting

- **MZC:** Plenum with motor-driven dampers
- **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.

Refer to dedicated product Leaflet for further details concerning control panel and VMF System

Compatibility of accessories

FCZI	Single coil models											
	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-E18	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4	•	•	•	•	•	•	•	•	•	•	•	•
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

Compatibility of accessories

FCZI	Single coil models											
	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									•	•	•	•
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									•	•	•	•

Compatibility of accessories

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

FCZI	Twin coil models											
	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-E18	•	•	•	•	•	•	•	•	•	•	•	•
VMF-E4	•	•	•	•	•	•	•	•	•	•	•	•
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		•	•	•	•	•	•	•	•	•	•	•
DSC4	(2)	•	•	•	•	•	•	•	•	•	•	•
Auxiliary condensate drip tray												
BC4	(3)	•	•	•	•	•	•	•	•	•	•	
BC5	(4)	•	•	•	•	•	•	•	•	•	•	
BC6	(4)											•
BC8	(4)	•	•	•	•	•	•	•	•	•	•	
BC9	(4)											•

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

Compatibility of accessories

FCZI	Twin coil models										
	201	202	301	302	401	402	501	502	701	702	901
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									.	.	.
RPA17											
RPA22	.	.									
RPA32			.	.							
RPA42							
RPA62									.	.	.
Plenum for duct installation											
MZC220	.	.									
MZC320			.	.							
MZC530							
MZC830									.	.	.

Compatibility of accessories

FCZI	Twin coil models										
	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 (EUROVENT FC2H) Unit for 2 pipe systems (main coil)

FCZI_P	200			250			300			350			400			450				
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Fan speed																				
Heating Performance																				
2 pipe systems																				
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
Cooling Performance																				
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
Fans																				
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
Sound level																				
Sound power level	(4)	dB(A)	51	46	35	51	46	35	48	41	34	48	41	34	51	44	37	51	44	37
Sound pressure level		dB(A)	43	38	27	43	38	27	40	33	26	40	33	26	43	36	29	43	36	29
Hydraulic connections																				
Main coil																				
Standard	∅		1/2"			/			3/4"			/			3/4"			/		
Oversized	∅		/			1/2"			/			3/4"			/			3/4"		
Electrical data																				
Absorbed power	W		14	8	5	14	8	5	13	7	5	13	7	5	18	10	5	18	10	5
Power supply	V/ph/Hz		230V~50Hz																	

FCZI_P	500			550			700			750			900			950				
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Fan speed																				
Heating Performance																				
2 pipe systems																				
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
Cooling Performance																				
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
Fans																				
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
Sound level																				
Sound power level	(4)	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
Hydraulic connections																				
Main coil																				
Standard	∅		3/4"			/			3/4"			/			3/4"			/		
Oversized	∅		/			3/4"			/			3/4"			/			3/4"		
Electrical data																				
Absorbed power	W		19	10	4	19	10	4	80	40	30	80	40	30	80	40	30	80	40	30
Power supply	V/ph/Hz		230V~50Hz																	

(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) Sound power level: based on measurement in compliance with Eurovent 8/2

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 (EUROVENT FC2H) Unit for 2 pipe systems (main coil)

FCZI_P			201			301			401		
Fan speed			H	M	L	H	M	L	H	M	L
Heating Performance											
4 pipe systems											
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
Cooling Performance											
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
Fans											
Centrifugal fans	n°		1			2			2		
Air flow rate	m³/h		290	220	140	450	350	260	600	460	330
Sound level											
Sound power level	(3)	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
Hydraulic connection											
Main coil	∅		1/2"			3/4"			3/4"		
Additional coil	∅		1/2"			1/2"			1/2"		
Electrical data											
Absorbed power		W	14	8	5	13	7	5	18	10	5
Power supply		V/ph/Hz	230V~50Hz								

FCZI_P			501			701			901		
Fan speed			H	M	L	H	M	L	H	M	L
Heating Performance											
4 pipe systems											
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
Cooling Performance											
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
Fans											
Centrifugal fans	n°		2			3			3		
Air flow rate	m³/h		720	600	400	1140	930	700	1140	930	700
Sound level											
Sound power level	(3)	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
Hydraulic connection											
Main coil	∅		3/4"			3/4"			3/4"		
Additional coil	∅		1/2"			1/2"			1/2"		
Electrical data											
Absorbed power		W	19	10	4	80	40	30	80	40	30
Power supply		V/ph/Hz	230V~50Hz								

(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) Sound power level: based on measurement in compliance with Eurovent 8/2

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 (EUROVENT FCP2H) Unit for 2 pipe systems (main coil)

FCZI_P	200			250			300			350			400			450				
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Fan speed																				
Hating Performance																				
2 pipe systems																				
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
Cooling Performance																				
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
Fans																				
Centrifugal fans	n°		1			2			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
Sound level																				
Sound Power (Inlet+Radietor)	(4)	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
Hydraulic connections																				
Main coil																				
Standard	Ø		1/2"			/			3/4"			/			3/4"			/		
Oversized	Ø		/			1/2"			/			3/4"			/			3/4"		
Electrical data																				
Absorbed power	W		31	27	7	31	27	7	40	11	10	40	30	10	48	38	18	48	38	18
Power supply	V/ph/Hz		230V~50Hz																	

FCZI_P	500			550			700			750			900			950				
	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L	H	M	L		
Fan speed																				
Hating Performance																				
2 pipe systems																				
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
Cooling Performance																				
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
Fans																				
Centrifugal fans	n°		2			3			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
Sound level																				
Sound Power (Inlet+Radietor)	(4)	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
Hydraulic connections																				
Main coil																				
Standard	Ø		3/4"			/			3/4"			/			3/4"			/		
Oversized	Ø		/			3/4"			/			3/4"			/			3/4"		
Electrical data																				
Absorbed power	W		60	50	18	60	50	18	78	61	21	78	61	21	78	61	21	78	61	21
Power supply	V/ph/Hz		230V~50Hz																	

H velocità massima; M velocità media; L velocità minima

(1) Aria ambiente 20°C b.s.; Acqua (in/out) 70°C/60°C;

(2) Aria ambiente 20°C b.s.; Acqua (in/out) 45°C/40°C (EUROVENT)

(3) Aria ambiente 27°C b.s./19°C b.u.; Acqua (in/out) 7°C/12°C (EUROVENT)

(4) Potenza sonora sulla base di misure effettuate in accordo alla normativa Eurovent 8/2

Pressione sonora (ponderato A) misurato in ambiente con volume V=85 m³, tempo di riverbero t=0,5s fattore di direzionalità Q=2; distanza r=2,5m.

Technical data (EUROVENT FCP4H) Unit for 4 pipe systems (with main + supplementary coil)

FCZI_P			201			301			401		
Fan speed			H	M	L	H	M	L	H	M	L
Hating Performance											
4 pipe systems											
Heating capacity (65°C)	(1)	kW	1,49	1,42	0,94	2,47	2,34	1,60	2,85	2,69	1,99
Water flow rate	(1)	l/h	128	122	81	212	201	138	245	231	171
Pressure drop	(1)	kPa	9	9	4	13	12	6	8	7	4
Cooling Performance											
Total cooling capacity	(2)	kW	1,45	1,37	0,80	2,53	2,38	1,40	3,21	2,98	2,03
Sensible cooling capacity	(2)	kW	1,20	1,13	0,63	1,94	1,82	1,10	2,36	2,18	1,45
Water flow rate	(2)	l/h	249	236	138	435	409	241	552	512	349
Pressure drop	(2)	kPa	16	14	5	17	15	7	20	13	9
Fans											
Centrifugal fans	n°		1			2			2		
Air flow rate	m³/h		257	226	148	424	390	225	515	470	300
High static pressure	Pa		57	50	21	59	50	16	60	50	20
Sound level											
Sound Power (Inlet+Radietior)	(3)	dB(A)	59	56	41	53	50	36	55	53	43
Sound Power (Outlet)		dB(A)	55	52	37	49	47	32	52	49	39
Hydraulic connections											
Main coil	∅		1/2"			3/4"			3/4"		
Additional coil	∅		1/2"			1/2"			1/2"		
Electrical data											
Absorbed power		W	31	27	7	40	31	10	48	38	14
Power supply			230V~50Hz								

FCZI_P			501			701			901		
Fan speed			H	M	L	H	M	L	H	M	L
Hating Performance											
4 pipe systems											
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
Cooling Performance											
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
Fans											
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
Sound level											
Sound Power (Inlet+Radietior)	(3)	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
Hydraulic connections											
Main coil	∅		3/4"			3/4"			3/4"		
Additional coil	∅		1/2"			1/2"			1/2"		
Electrical data											
Absorbed power		W	60	50	18	78	61	21	78	61	21
Power supply			230V~50Hz								

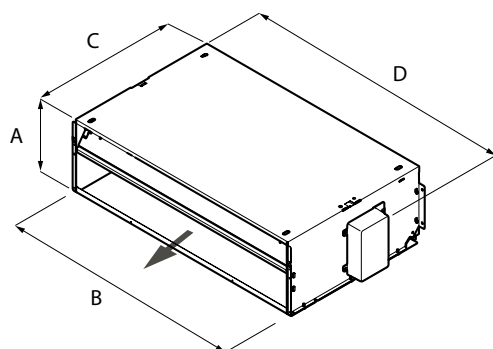
(1) Room air temperature 20°C d.b.; Water (in/out) 65°C/55°C; (EUROVENT)

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

(3) Sound power level: based on measurement in compliance with Eurovent 8/2

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

Dimensions and Weights



FCZI P		200	201	202	250	300	301	302	350	400	401	402	450	500	501	502	550	700	701	702	750	900	901	/	950
Dimensions for all versions																									
Height	A	mm	216				216				216				216				216				216		
Width	B*	mm	522				753				973				973				1122				1122		
Depth	D	mm	453				453				453				453				453				558		
Depth	C	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

* maximum dimensions