FCL - FCLI CASSETTE FAN COIL ARCHITECTURALLY INTEGRATED COMFORT



Installation within false ceiling On/off & inverter versions, applicable with VMF management system



Cassette fan coils FCL / FCLI

Greater comfort, less consumption

The future is Inverter. Cassette fan coils with DC brushless motor.

FCLI is the Aermec range of Cassette-type fan coils with continuous 0-100% air flow rate variation and continuous heating/cooling capacity variation.

The nominal cooling capacity ranges from 1,1 kW to 11,0 kW The nominal heating capacity ranges from 1,3 kW to 21,7 kW

- 50% saving on electricity bills in relation to traditional ON-OFF Cassette fan coils;
- total comfort: reduced temperature swings and relative humidity variations;
- quickly obtained temperatures in the air-conditioned rooms;
- very quiet operation.



AIR-CONDITIONED ROOMS WITH TRADITIONAL ON-OFF CASSETTE FAN-COILS

90 Watt

Is the total average ventilation power input*

* Values given as an example referring to the whole apartment

AIR-CONDITIONED ROOMS WITH NEW FCLI INVERTER CASSETTE FAN COILS

Watt

Is the total average ventilation power input*

* Values given as an example referring to the whole apartment

3 SPEED ON-OFF FAN COIL

-9dB(A)

is the noise level reduction, especially favourable during night-time operations.





Thanks to Inverter technology combined with the latest generation and highly efficient DC Brushless electric motor, the FCLI series Cassette fan coils are able to modulate the airflow rate (and therefore the heating and cooling capacity) in a continuous manner 0 % - 100%. This means the capacity is adjusted moment by moment to the specific needs of the air-conditioned room. The result? 50% energy savings during winter and summer air-conditioning ventilation, compared with the traditional On-Off ranges. That is to say that for every $100 \in$ of power consumption of a traditional on-off fan coil, FCLI with Inverter makes a net saving of $50 \in$.

-50%

IS THE ANNUAL SAVING OF ELECTRICITY OF THE FCLI INVERTER CASSETTE COMPARED TO TRADITIONAL ON-OFF CASSETTE

BRUSHLESS MOTOR

Il motore elettrico The DC "brushless" electric motor is the result of combining the most sophisticated technologies from the fields of mechanics and electronics. "Brushless" literally means "without brushes". In fact, this is a direct current motor without contacts between the rotor and stator.

With the special inverter device, it is possible to control the speed and torque of the rotor continuously, just by means of the stator currents. Compared with the traditional alternate current motors, the brushless motor offers huge advantages:

- The possibility to regulate the rotation speed in a precise, continuous manner (0-100%)

- higher energy yields
- longer life and greater reliability

-9dB(A)

IS THE NOISE LEVEL REDUCTION, ESPECIALLY FAVOURABLE DURING NIGHT-TIME OPERATIONS. REDUCTION, ESPECIALLY FAVOURABLE DURING NIGHT-TIME OPERATIONS

These characteristics have made the brushless motor irreplaceable in a wide variety of applications, amongst which:

- robotics
- automotive
- precision drives
- CD/DVD players
- medical equipment.

EFFICIENCY AND SAVING

The highly efficient electric motors of the latest brushless DC type,

combined with the inverter technology of the FCLI fan coils, can modulate the air flow rate continuously (0%-100%) and therefore reduce absorption by up to 50% compared with traditional ON-OFF motors. This means that every 100 euro of power consumption of a traditional fan coil, the FCLI with Inverter produces a net saving of 50 €!

-50%

IS THE REDUCTION OF CO2, CARBON DIOXIDE EMISSIONS RESPONSIBLE FOR THE GREENHOUSE EFFECT

HEAT EXCHANGE EFFICIENCY

A significant element of the new FCL / FCLI series is the heat exchanger coil, the triple loop profile of which helps to increase the usable area of exchange compared to the circular coil, commonly used in traditional Cassette. The result is a 40% increase in heat exchange energy efficiency compared to traditional Cassette.

INVERTER

The FCLI fan coil continuously modifies the air flow rate, adapting it moment by moment - to the real needs in the room. This produces considerable advantages in terms of electric savings, co mfort and noise reduction compared with a traditional on-off Cassette fan coil.



Traditional ON-OFF Cassette Fan Coil _____ FCLI Inverter _____

The highly efficient electric motors of the latest brushless DC type, combined with the inverter technology of the FCLI fan coils, can modulate the air flow rate continuously (0%-100%) and therefore reduce absorption by up to 50% compared with traditional 3-speed motors.

IS THE INCREASE IN THE HEAT **EXCHANGE EFFICIENCY OBTAINED** WITH THE NEW DOUBLE LOOP COILS

.200/~

IS THE REDUCTION IN THE COOLING TIME OF THE **AIR-CONDITIONED ROOM**

QUIETNESS

The new fan unit with polycentric blades and the in-depth study of air flows inside the machine have led to a significant reduction of the fan coil's noise power (up to 9 dB (A) less than the FCA series). (see graph). The silence of the FCLI with inverter models is ensured by continuous variation of the air flow rate that allows the fan coil to operate at lower speeds. The silence of the FCL on-off models is ensured by the presence the so called "super minimum" fourth speed.

VERSATILITY



The great versatility of installation is achieved thanks to a wide

range of accessories, including: suction and discharge grille with manually adjustable fins that can be connected to a wire control or with fins manoeuvred by remote control; flange for delivery to adjacent room or flange and bulkhead for

emission of external air into the environment; electrical heating resistor for connection to the grille; motor-driven three-way on-off valve for the heating element in 4-pipe systems. motor-driven two-way on-off valve for the heating element in 4-pipe systems. Other accessories also include, interface cards to operate more Cassette with the same control panel. The FCL fan coil may also be introduced in the latest variable water flow systems, thanks to the inclusion of the two-way valve. The two-way valve is also

EASY INSTALLATION AND MAINTENANCE

available for the extra coil in case



of 4-pipe systems.

The easy installation and maintenance is given by the overall accessibility of

the hydraulic, aeraulic, electrical and electronic parts from the bottom of the machine (an inspection hatch is not needed in the ceiling next to the machine).

-75%

IS THE REDUCTION OF THE STARTING CURRENT IN THE FCLI INVFRTFR CASSETTE IN RELATION TO THE TRADITIONAL ON-OFF CASSETTE

In this regard, the electronic box with bayonet fitting makes the intervention on these components much easier.

COMFORT

The FCL On-Off and FCLI inverters fan coils, the first thanks to the 4-speed motor and the second due to the continuous modulation of the power output, ensure that the temperature and relative humidity of the air within the air-conditioned rooms is relatively constant. The minimisation of oscillation is a guarantee of absolute comfort.

Sound power [dB (A)] Air flow rate = 1350 mc/h





Coil

Electronic box

Valve



The triple loop heat exchange coil has allowed to increase the energy efficiency of heat exchange by 40% compared to traditional Cassette with circular coils.



The electronic box with bayonet fitting makes installation and maintenance operations extremely easy.



The three-way valve is fitted as standard inside the machine. The two-way modulating valve is also available on request, suitable for innovative systems with variable water flow rate.



| FCL - FCLI |

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 | | | 42 | |
 | 44 | | | 62 | | | 64 | |

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 | L | н | M | L | н
 | M | L | н | M | L | н | M | |
| Heating capacity (70°C) | z pipe cor

 |) kW | 4 00
 | 2 95 | 2.22 | /
 | / | / | 6 27 | 4 50 | 3 4 2 | / | /
 | / | 734 | 4 4 7 | 3 3 2 | /
 | / | / | 10.49 | 6 37 | 5 1 9 | / | / | / |
| Water flow rate | (*

 |) l/h | 350
 | 258 | 194 | /
 | / | / | 549 | 394 | 300 | / | /
 | / | 642 | 391 | 290 | /
 | -/ | / | 918 | 558 | 454 | | / | |
| Pressure drops | (*

 |) kPa | 10
 | 6 | 4 | /
 | / | / | 19 | 10 | 6 | / | /
 | / | 24 | 10 | 6 | /
 | / | / | 42 | 17 | 12 | / | / | / |
| Heating capacity (50°C) | (2

 | 2) kW | 2,38
 | 1,76 | 1,33 | /
 | / | / | 3,75 | 2,69 | 2,05 | / | /
 | / | 4,40 | 2,69 | 2,00 | /
 | / | / | 6,25 | 3,83 | 3,10 | / | / | / |
| Water flow rate | (2

 | 2) l/h | 327
 | 253 | 200 | /
 | / | / | 516 | 387 | 308 | / | /
 | / | 679 | 437 | 337 | /
 | / | / | 856 | 551 | 458 | / | _/ | / |
| Pressure drops | (2

 | 2) kPa | 9
 | 6 | 3.8 | /
 | _/ | / | 17 | 10 | 7 | _/ | /
 | / | 27 | 12 | 8 | _/
 | _/ | / | 37 | 17 | 12 | _/ | _/ | _/ |
| Water flow rate | (:

 | s) KVV
s) I/h | 345
 | 254 | 1,10 | /
 | / | / | 541 | 389 | 295 | / | /
 | / | 5,05
633 | 2,23
386 | 287 | /
 | | / | 905 | 550 | 2,58 | _/ | | |
| Pressure drops | (3

 | 5) kPa | 10
 | 6 | 4 | /
 | / | / | 19 | 10 | 6 | / | /
 | / | 23 | 10 | 6 | /
 | / | / | 41 | 17 | 11 | / | _/ | _/ |
| 4 Pipe configuration wi | th Additio

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 | ger | | | | | | | |
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 | | | - | |
 | | | | | | | | |
| Heating capacity | (4

 | l) kW | /
 | / | / | 2,60
 | 2,19 | 1,95 | / | / | / | 2,60 | 2,19
 | 1,95 | / | / | / | 3,07
 | 2,28 | 1,96 | / | / | / | 3,57 | 2,81 | 2,48 |
| Water flow rate | (4

 | l) l/h | /
 | / | / | 228
 | 192 | 171 | / | / | / | 228 | 192
 | 171 | / | / | / | 269
 | 200 | 172 | / | / | / | 312 | 246 | 217 |
| Pressure drops | (4

 | l) kPa | /
 | / | / | 11,4
 | 8,4 | 6,8 | / | / | / | 11,4 | 8,4
 | 6,8 | / | / | / | 14,5
 | 8,5 | 6,5 | / | / | _/ | 22,9 | 14,8 | 11,9 |
| Cooling Performance | (1

 |) kw | 1.00
 | 1 / 7 | 1 16 | 1.00
 | 1 / 7 | 1 16 | 3 00 | 2.25 | 1 70 | 2 77 | 2.08
 | 1.65 | 3 05 | 2.54 | 1.06 | 3.64
 | 2.30 | 1.93 | 1 0 9 | 2 21 | 2.66 | 4.61 | 2.06 | 2.46 |
| Sensible cooling capacity | (-

 | i) kW | 0.99
 | 1.25 | 1.52 | 1.52
 | 1.25 | 0.99 | 2.40 | 1.78 | 1.39 | 2.24 | 1.66
 | 1.30 | 3.16 | 1.82 | 1.38 | 2.91
 | 1.62 | 1.30 | 3.81 | 2.24 | 1.87 | 3.53 | 2,08 | 1.73 |
| Water flow rate | (1

 | 5) l/h | 327
 | 253 | 200 | 327
 | 253 | 200 | 516 | 387 | 308 | 476 | 358
 | 284 | 679 | 437 | 337 | 626
 | 396 | 314 | 856 | 551 | 458 | 793 | 510 | 424 |
| Pressure drops | (1

 | i) kPa | 11,7
 | 7,4 | 4,8 | 12,7
 | 8 | 5,2 | 7,6 | 11,5 | 19,3 | 18,7 | 11,2
 | 7,4 | 32,4 | 14,7 | 9,2 | 31,7
 | 13,9 | 9,2 | 47,8 | 21,6 | 15,5 | 50,3 | 22,7 | 16,3 |
| Fans |

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 | | | | | | | | |
| Fan |

 | type/n |
 | 410 | 200 | 600
 | 410 | 200 | 600 | 410 | 200 | 600 | 410
 | entrifu | ugal/1 | 260 | 260 | 700
 | 260 | 260 | 000 | 500 | 200 | 000 | | 200 |
| Air flow rate |

 | m³/n | 600
 | 410 | 300 | 600
 | 410 | 300 | 600 | 410 | 300 | 600 | 410
 | 300 | 700 | 360 | 260 | /00
 | 360 | 260 | 880 | 500 | 380 | 880 | 500 | 380 |
| Sound power level | (6

 | dB(A) | 46
 | 38 | 35 | 46
 | 38 | 35 | 46 | 38 | 35 | 46 | 38
 | 35 | 53 | 39 | 35 | 53
 | 39 | 35 | 61 | 47 | 41 | 61 | 47 | 41 |
| Sound pressure level | (-

 | dB(A) | 37
 | 29 | 26 | 37
 | 29 | 26 | 37 | 29 | 26 | 37 | 29
 | 26 | 44 | 30 | 26 | 44
 | 30 | 26 | 52 | 38 | 32 | 52 | 38 | 32 |
| Diameter connections |

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| Standard coil |

 | Ø |
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 | 3/4" | | | 3/4" | | | 3/4"
 | | | 3/4" | |
 | 3/4" | | | 3/4" | | | 3/4" | |
| Additional coil |

 | Ø |
 | / | |
 | 1/2" | | | // | | | 1/2"
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 | 1/2" | | | / | | | | |
| Floctrical Foatures |

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| Ale to t | FCL

 | W | 45
 | 31 | 21 | 45
 | 31 | 21 | 45 | 31 | 21 | 45 | 31
 | 21 | 75 | 32 | 22 | 75
 | 32 | 22 | 83 | 37 | 26 | 83 | 37 | 26 |
| Absorbed power | FCLI

 | W | 18
 | 13 | 10 | 18
 | 13 | 10 | - | | - | - | -
 | - | 55 | 16 | 12 | 55
 | 16 | 12 | 61 | 20 | 14 | 61 | 20 | 14 |
| Max input current | FCL

 | A |
 | 0,22 | |
 | 0,22 | | | 0,22 | | | 0,22
 | | | 0,33 | |
 | 0,33 | | | 0,37 | | | 0,45 | |
| Max. Input current | FCLI

 | A |
 | 0,28 | |
 | 0,28 | | | - | | | -
 | | | 0,43 | |
 | 0,43 | | | 0,47 | | | 0,47 | |
| Electrical wiring | FCL

 | | V3
 | V2 | V1 | V3
 | V2 | V1 | V3 | V2 | V1 | V3 | V2
 | V1 | V4 | V2 | V1 | V4
 | V2 | V1 | V4 | V2 | V1 | V4 | V2 | V1 |
| Enormy Efficiency classific | FCLI

 | WENT) | 90
 | 62 | 42 | 90
 | 62 | 42 | | - | | | -
 | | 90 | 46 | 34 | 90
 | 46 | 44 | 90 | 52 | 40 | 90 | 52 | 40 |
| ECEFR |

 | OVENT) |
 | F/D | |
 | E/D | | | D/- | | | D/-
 | | | ם / כ | |
 | C/C | | | C/C | | | D/D | |
| FCCOP | FCL/FCLI

 | (7) |
 | E/D | |
 | D/D | | | D/- | | | D/-
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| Dimensions |

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| Height / Lenght / Depht |

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Cooling Performance
Total cooling capacity
Sensible cooling capacity
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| FCL - FCLI Fan speed Heating Capacity (70°C) Water flow rate Pressure drops Heating capacity (50°C) Water flow rate Pressure drops Heating capacity (45°C) Water flow rate Pressure drops Heating capacity (45°C) Water flow rate Pressure drops Heating capacity (45°C) Water flow rate Pressure drops Cooling Performance Cooling Capacity Water flow rate Pressure drops Fans Fan Air flow rate Sound power level Diameter connections Standard coil Additional coil Increased coil Electrical Features Absorbed power Max. input current Electrical wiring Energy Efficiency classificater FCEER FCCOP Dimensions | pipe coni (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) (2) (3) (4) (5) (5) (5) (5) (5) (6) (6) (7) (8) (9) (10) (11) (12) (12) (13) (14)

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For further information, please refer to the selection programme or the technical documentation available at www.aermec.com

H max. speed; M med.speed; L min.speed

(1) Room air 20°C b.s.; Water (in/out) 70°C/60°C;

(2) Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode (EUROVENT)
 (3) Room air 20°C b.s.; Water (in/out) 45°C/40°C (EUROVENT)
 (4) Room air 20°C b.s.; Water (in/out) 70°C/60°C (EUROVENT)

*: Sizes not availables for version FCL-FCLI

¹: est. : Standard / V2: with internal two-way valve, suitable for variable water flow rate systems. VL: without internal valve.

(5) Room air 27°C b.s./19°C b.u.; Water (in/out) 7°C/12°C (EUROVENT) (6) Sound power level on the basis of measurements made in compliance with Eurovent 8/2 (7) FCCOP Related to: Room air 20°C b.s.; Water (in) 50°C; Water flow rate as in cooling mode Sound pressure level (A-weighted) measured in the room with volume V=100 m3, reverberation time t = 0.5 s; Direction factor Q = 2; Distance r = 2.5m



Aermec participate in the EUROVENT program: FCH the products are present on the site www.eurovent-certification.com

HANGAR DESIGN GROUP

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