

LASER & LOW BODY Fan Coil Units

2 & 4 pipe system

A complete range from 0.6 kW up to 9.7 kW



TUC03 Terminal unit controller
BacNET and N2 Metasys network compatible



CSL00 (Built in)
CSR00 (Wall mounted)
Fan speed selector



CML00 (Built in)
CMR00 (Wall mounted)
Thermostat with manual fan speed and S/W change over



CEL00 (Built in)
CER00 (Wall mounted)
Thermostat with manual fan speed and automatic change over

CEL20 (Built in)
CER20 (Wall mounted)
Thermostat with auto. fan speed and automatic change over

CEL30 (Built in)
CER30 (Wall mounted)
Thermostat with auto. fan speed and automatic change over for modulating valve

LASER fan coil units are simple and elegant, discreet in their design. High standards of quality and reliability, combined with a wide range of accessories ensure a total solution for all comfort cooling and heating requirements.

LOW BODY units are part of the LASER Fan Coils Units family. The reduced height cabinet makes them the ideal solution for new or replacement applications where dimensional limitations apply.



Selection software

Features

- 6 speed fan
- Cabinet factory fitted
- Valve factory fitted
- Electrical heater factory fitted
- Thermal or modulating valve
- Service valve
- Option front air intake (LASER)
- Optional plenum (LASER)
- ECM inverter option available
- Option for district cooling coil

LASER & LOW BODY Fan Coil Units

0.6 to 9.7 kW



Technical features

Model	LOW BODY: YLVR, YLIVR					
Sizes		110	112	114	216	218
Total cooling capacity [kW]	(1) max	0.98	1.16	1.74	2.53	3.06
	med	0.82	0.97	1.54	2.14	2.66
	min	0.62	0.78	1.28	1.69	2.16
Sensible cooling capacity [kW]	(1) max	0.86	1.07	1.49	2.15	2.58
	med	0.73	0.88	1.30	1.76	2.20
	min	0.53	0.68	1.09	1.41	1.77
Water flow in cooling [l/h]	(1) max	168	199	299	434	525
	med	141	166	264	367	456
	min	106	134	220	290	371
Pressure drop in cooling [kPa]	(1) max	2.1	3.0	6.9	5.8	8.9
	med	1.6	2.2	5.7	4.3	7.9
	min	1.0	1.5	4.1	2.8	4.8
Heating capacity 2 pipes [kW]	(2) max	1.36	1.63	2.39	3.44	4.13
	med	1.13	1.37	2.04	2.88	3.54
	min	0.85	1.10	1.69	2.31	2.88
Water flow in heating 2 pipes [l/h]	(2) max	Water flow values as Cooling, according to the EUROVENT standards and UNI ENV 1397				
	med					
	min					
Pressure drop in heating 2 pipes [kPa]	(2) max	1.7	2.5	5.8	4.9	7.6
	med	1.2	1.8	4.5	3.7	5.9
	min	0.8	1.3	3.3	2.4	4.1
Heating capacity 4 pipes [kW]	(3) max	1.26	1.83	2.39	3.42	3.96
	med	1.09	1.60	2.12	3.03	3.55
	min	0.90	1.36	1.84	2.61	3.06
Water flow in heating 4 pipes [l/h]	(3) max	111	161	210	300	348
	med	96	141	186	266	312
	min	79	119	162	229	269
Pressure drop in heating 4 pipes [kPa]	(3) max	2.2	4.6	8.9	18.6	6.0
	med	1.7	3.7	7.3	15.0	4.8
	min	1.2	2.2	5.6	11.4	3.7
Air flow [m³/h]	max	253	317	432	614	737
	med	187	252	351	488	606
	min	136	186	278	371	470
Sound power level [dB(A)]	max	51	51	54	55	58
	med	44	45	49	49	53
	min	37	40	43	42	47
Sound pressure level [dB(A)]	max	41	41	45	45	49
	med	35	36	40	40	44
	min	28	31	34	33	37
Power supply [V-ph-Hz]	230 / 1 / 50 + E					
Power input [W]	max	46	51	57	67	77
Absorbed current [A]	max	0.22	0.23	0.25	0.29	0.33
Dimensions	Height mm	430	430	430	430	430
	Width mm	648	773	898	1023	1148
	Depth mm	254	254	254	254	224

(1) Room temperature 27°C d.b., 19°C w.b. - Water temperature 7/12 °C

(2) Room temperature 20°C - Water inlet temperature: 50°C

(3) Room temperature 20°C - Water inlet temperature: 70/60°C.

(4) Sound pressure level in a 100 m³ room, at 1.5 m distance and reverberating time of 0.3 s.

max = speed 2, med = speed 3 min = speed 5 when using selection software



Manufacturer reserves the rights to change specifications without prior notice.

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Compatibility tables



CSL00 (Built in)
CSR00 (Wall mounted)
Fan speed selector



CELOO (Built in)
CEROO (Wall mounted)
Thermostat with manual fan speed and automatic change over



CEL20 (Built in)
CER20 (Wall mounted)
Thermostat with auto. fan speed and automatic change over



CML00 (Built in)
CMR00 (Wall mounted)
Thermostat with manual fan speed and S/W change over

CEL30 (Built in)
CER30 (Wall mounted)
Thermostat with auto. fan speed and automatic change over for modulating valve

Features CEL/CER

- Dead band for change over 5°C or 2°C (factory set 2°C)
- Manual fan speeds or automatic (models 20 and 30)
- Thermostated fan control or continuous fan running
- Option water sensor WS for change over on coil (for 2 pipes)
- Led indicated status summer, winter or dead band
- Temperature setting for 7 to 30°C (comfort 20-25°C)
- Plastic pins for limiting temperature range
- Input for window contact
- Input for Economy/ occupancy mode
- Output for remote alarm
- Filter alarm 600 or 1200 running hours (factory set 1200 hours)
- With electrical heater post ventilation
- With Air sensor in the air intake destratification function (CEL only)

Compatibility table Thermostats / Valves / Heaters / Parallel connection / Water sensor / Minimum temperature thermostat

Factory fitted thermostat (built in)	Valves for 2 pipes		Valves for 4 pipes		Heaters	Parallel connection		Water sensor	Min. Temp. Thermostat
	J3A2 (2p)	J3AM (2p)	J3A2 (4p)	J3AM (4p)		ON/OFF	Modulating		
	CBL20	CBL30	WS	TM					
CSL00 Fan speed selector						•			•
CML00 Thermostat with manual fan speed and S/W change over	•		•			•			•
CELOO Thermostat with manual fan speed, dead band, automatic change over	•		•		•	•		•	•
CEL20 Thermostat with automatic fan speed, dead band, automatic change over	•		•		•	•		•	•
CEL30 Thermostat with automatic fan speed, dead band, automatic change over for modulating valve		•		•			•	•	•

Remote controllers and thermostats (wall mounted)

CSR00 Fan speed selector						•			•
CMR00 Thermostat with manual fan speed and S/W change over	•		•			•			•
CEROO Thermostat with manual fan speed, dead band, automatic change over	•		•		•	•		•	•
CER20 Thermostat with automatic fan speed, dead band, automatic change over	•		•		•	•		•	•
CER30 Thermostat with automatic fan speed, dead band, automatic change over for modulating valve		•		•			•	•	•

• Compatible □ Not compatible

LASER ECM and LOW BODY ECM

Compatibility tables



Compatibility Options / Accessories / Models

Code	Designation	STANDARD								LOW BODY-ECM	
		LASER-ECM				CONCEALED-ECM					
		YLV	YLH	YLV-AF	YLH-AF	YLIV	YLIH	YLIV-AF	YLIH-AF	YLVR	YLIVR
Coils and heaters**											
BA1**	Additional 1 row heating	•	•	•	•	•	•	•	•	•	•
KREL**	Kit electrical heater with safety thermostat and relay	•	•	•	•	•	•	•	•	•	•
Factory fitted thermostat (built in)											
EDCL	Microprocessor control for ECM units	•		•		•		•		•	•
OBV11-ODC711	Omnibus control for ECM units + Analogue Plus console	•		•		•		•		•	•
OBV11-ODC211	Omnibus control for ECM units + Display console	•		•		•		•		•	•
Remote controllers and thermostats (wall mounted)											
EDCR	Microprocessor control for ECM units, for wall installation	•	•	•	•	•	•	•	•	•	•
OBV10+ODC716	Omnibus control for ECM units + Remote Analogue Plus console	•	•	•	•	•	•	•	•	•	•
OBV10+ODC216	Omnibus control for ECM units + Remote Display console	•	•	•	•	•	•	•	•	•	•
Valves / Condensate pump / Water sensor / Minimum temperature thermostat (Factory fitted)											
J3A2 (2p)	3-way 4-ports on/off valves for 2-pipe systems	•	•	•	•	•	•	•	•	•	•
J3A2 (4p)	3-way 4-ports on/off valves for 4-pipe systems	•	•	•	•	•	•	•	•	•	•
J3AM (2p)	3-way 4-ports modulating valves for 2-pipe systems	•	•	•	•	•	•	•	•	•	•
J3AM (4p)	3-way 4-ports modulating valves for 4-pipe systems	•	•	•	•	•	•	•	•	•	•
DT (2p)	Shut-off valves for 2-pipe systems (in addition to J3A2/J3AM valves)	•	•	•	•	•	•	•	•	•	•
DT (4p)	Shut-off valves for 4-pipe systems (in addition to J3A2/J3AM valves)	•	•	•	•	•	•	•	•	•	•
PC	Condensate pump	•	•	•	•	•	•	•	•	•	•
WS	Water sensor	Compatible with all the above listed controllers									
Feet and panels											
CP1	Set of painted feet	•				•					
ZL1	Set of feet + frontal socle	•									
PPV1	Vertical painted back panel	•		•							•
PPH1	Horizontal painted back panel		•		•						
External air intake											
PA	Air intake plenum						•				
PAS	Air intake plenum collars						•				
PA90	90° air intake plenum						•				
RCA	Air intake duct fitting						•				
PM	Air delivery plenum with collars					•	•	•	•		•
PM90	90° air delivery plenum					•	•	•	•		•

- Compatible
- Compatible with conditions
- Not compatible

** Maximum of rows is indicated in the documentation, the maximum number of rows includes the heating row or electrical heater.