

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.

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



Selection software

LASER & LOW BODY Fan Coil Units

0.6 to 9.7 kW



Technical features

Model		LASER: YLV, YLV-AF, YLH, YLH-AF, YLIV, YLIV-AF, YLIH, YLIH-AF										
Sizes		110	112	114	216	218	220	222	224	226	328	
Total cooling capacity [kW]	(1)	max	1.11	1.59	2.14	3.30	3.50	4.44	5.07	6.43	7.25	9.73
		med	0.95	1.31	1.88	2.67	2.99	3.68	4.39	5.75	6.67	8.75
		min	0.76	1.07	1.57	2.20	2.46	2.94	3.84	4.62	5.50	6.36
Sensible cooling capacity [kW]	(1)	max	0.93	1.25	1.9	2.46	3.06	3.53	4.42	5.06	5.70	8.04
		med	0.78	0.99	1.64	1.95	2.51	2.84	3.74	4.44	5.18	7.15
		min	0.61	0.79	1.33	1.56	2.00	2.20	3.2	3.45	4.15	5.03
Water flow in cooling [l/h]	(1)	max	190	273	367	566	601	762	870	1103	1244	1689
		med	160	225	323	456	513	631	753	987	1144	1521
		min	130	184	269	377	422	504	659	793	944	1108
Pressure drop in cooling [kPa]	(1)	max	3.4	7.1	5.8	14.8	13.6	24.1	28.4	18.8	21	34.2
		med	2.8	5	4.6	12.5	9.8	17.4	21.8	15.5	18.1	28.2
		min	2	3.4	3.3	8.5	6.7	11.6	17.2	10.5	12.8	14.1
Heating capacity 2 pipes [kW]	(2)	max	1.57	2.16	3.05	4.11	4.95	5.71	7.19	7.83	9.33	13
		med	1.28	1.73	2.43	3.44	4.16	4.65	6.08	6.94	8.51	11.5
		min	1	1.35	2	2.75	3.35	3.61	5.25	5.45	6.86	8.02
Water flow in heating 2 pipes [l/h]	(2)	max	Water flow values as Cooling, accordingly to the EUROVENT standards and UNI ENV 1397									
		med										
		min										
Pressure drop in heating 2 pipes [kPa]	(2)	max	2.7	6.1	4.8	11.9	12.5	20	23.5	15.5	20.5	30.4
		med	2.3	4.7	3.7	8.5	9.1	14.3	18	12.7	17.6	24.9
		min	1.7	3.1	2.8	5.7	6.3	9.5	14.2	8.7	12.4	13.8
Heating capacity 4 pipes [kW]	(3)	max	1.12	1.53	2.25	3.10	3.72	5.14	5.80	7.16	7.36	9.10
		med	1.02	1.31	2.06	2.73	3.33	4.33	5.09	6.44	7.04	8.35
		min	0.79	1.14	1.68	2.29	2.81	3.51	4.36	5.36	5.89	6.60
Water flow in heating 4 pipes [l/h]	(3)	max	98	134	198	272	327	451	509	629	646	799
		med	90	115	181	240	292	380	447	565	618	733
		min	69	100	147	201	247	308	383	471	517	580
Pressure drop in heating 4 pipes [kPa]	(3)	max	2	4.5	8.83	21.1	9.4	14.1	15.8	43.2	41.8	58.6
		med	1.6	3.4	7.6	15.8	7.7	10.4	12.7	30.0	38.8	49.9
		min	1.07	2.6	6.70	12.2	5.4	7.2	9.6	21.8	28.4	31.9
Air flow [m ³ /h]	(3)	max	243	321	436	581	712	871	1081	1254	1481	2068
		med	191	249	358	456	592	699	929	1116	1352	1725
		min	144	194	289	338	474	538	739	798	999	1070
Sound power level [dB(A)]	(4)	max	48	50	54	53	55	54	60	60	63	67
		med	42	45	49	47	50	48	56	55	60	63
		min	36	38	42	40	43	40	50	47	53	52
Sound pressure level [dB(A)]	(4)	max	38	40	44	43	45	44	50	50	53	57
		med	32	35	39	37	40	38	47	46	50	53
		min	26	28	32	30	33	30	40	38	43	42
Power supply [V-ph-Hz]		230 / 1 / 50 + E										
Power input [W]	max	46	48	57	61	76	90	117	140	162	222	
Absorbed current [A]	max	0.22	0.23	0.27	0.29	0.33	0.38	0.52	0.65	0.65	1.00	
Dimensions	Height	mm	538	538	538	538	538	614	614	614	614	614
	Width	mm	648	773	898	1023	1148	1273	1273	1523	1523	1773
	Depth	mm	224	224	224	224	224	254	254	254	254	254

(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 riverberating 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.

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, accordingly 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 [m ³ /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)]	(4)	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



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Options / Accessories

Compatibility table / Codes

Model	Sizes	LASER										LOW BODY				
		110	112	114	216	218	220	222	224	226	328	110	112	114	216	218
With Cabinet																
YLV-YLH	2/3/4 rows	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
YLV-YLH/AF Front air intake	2/3/4 rows	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
YLVR	2/3 rows												•	•	•	•
Without Cabinet																
YLIV-YLIH	2/3/4 rows	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
YLIV-YLIH/AF Front air intake	2/3/4 rows	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
YLIVR	2/3 rows												•	•	•	•
Options (Factory fitted)																
Coil and heaters																
1 row heating	BA1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Kit electrical heater (with relay and safety switch)	KREL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Built in thermostat																
Fan speed selector	CSL00															
Thermostat with manual fan speed and S/W change over	CML00															
Thermostat with manual fan speed, dead band, automatic change over	CEL00															
Thermostat with automatic fan speed, dead band, automatic change over	CEL20															
Thermostat with automatic fan speed, dead band, automatic change over for modulating valve	CEL30															
Parallel connection																
For ON/OFF valve one/FCU	CBL20															
For modulating valve one/FCU	CBL30															
3 way valve factory fitted																
For 2 pipe systems ON/OFF	J3A2 (2p)															
For 4 pipe systems ON/OFF	J3A2 (4p)															
3 way modulating valve factory fitted																
For 2 pipe systems Modulating	J3AM (2p)															
For 4 pipe systems Modulating	J3AM (4p)															
Shut off valves factory fitted																
For 2 pipe systems	DT (2p)															
For 4 pipe systems	DT (4p)															
Condensate pump	PC															
WS sensor change over for CEL/CER	WS															
Minimum temperature thermostat	TM															
Accessories (Supplied loose)																
Remote controllers and thermostat (wall mounted)																
Fan speed selector	CSR00															
Thermostat with manual fan speed and S/W change over	CMR00															
Thermostat with manual fan speed, dead band, automatic change over	CER00															
Thermostat with automatic fan speed, dead band, automatic change over	CER20															
Thermostat with automatic fan speed, dead band, automatic change over for modulating valve	CER30															
Feet and panel (1)																
Set of painted feet	CP1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Set of painted feet + frontal socle	ZL1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Vertical painted back panel	PPV1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Horizontal painted back panel	PPH1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Plenums and air intake (1)																
Air intake plenum	PA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air intake plenum with collars	PAS	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90° air intake plenum	PA90	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air intake duct fitting	RCA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Air delivery plenum with collars	PM	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
90° air delivery plenum	PM90	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

(1) for check compatibility with the models of FCU see compatibility table

Dimensions & Weights

YLV & YLH

- ▶ V= vertical
- ▶ H= horizontal

YLV-AF & YLH-AF

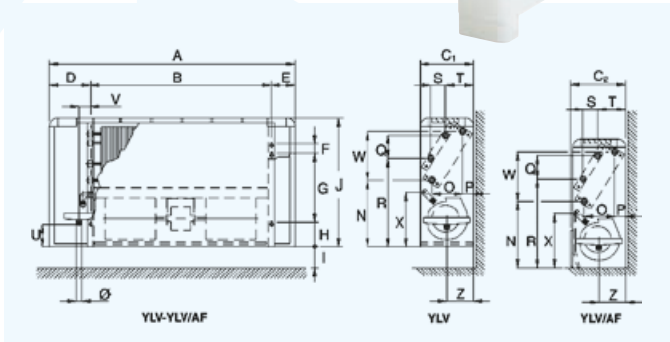
- ▶ AF= front air intake
- ▶ V= vertical
- ▶ H= horizontal

YLV-R

- ▶ R= low body
- ▶ V= vertical

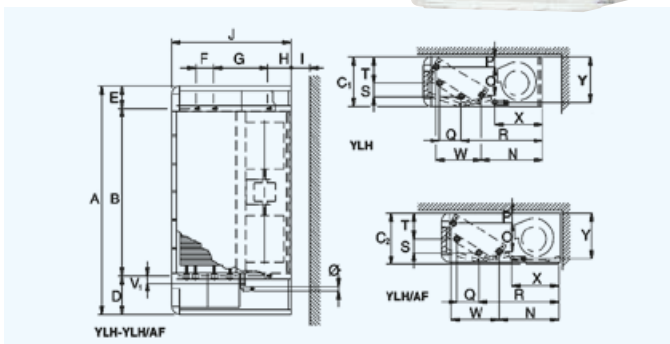
LASER: YLV - YLV/AF

VERTICAL



LASER: YLH - YLH/AF

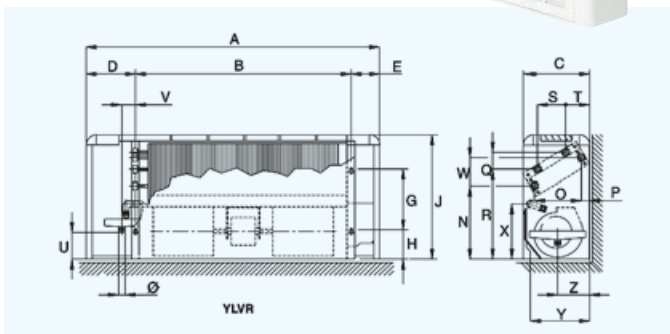
HORIZONTAL



Dim	110	112	114	216	218	220	222	224	226	328
A	648	773	898	1023	1148	1273	1273	1523	1523	1773
B	374	499	624	749	874	999	999	1249	1249	1499
C1	224	224	224	224	224	254	254	254	254	254
C2	233	233	233	233	233	263	263	263	263	263
D	174	174	174	174	174	174	174	174	174	174
E	100	100	100	100	100	100	100	100	100	100
F	40	40	40	40	40	40	40	40	40	40
G	280	280	280	280	280	356	356	356	356	356
H	101	101	101	101	101	101	101	101	101	101
I	85	85	85	85	85	85	85	85	85	85
J	538	538	538	538	538	614	614	614	614	614
N	266	266	266	266	266	299	299	299	299	299
O	113	113	113	113	113	138	138	138	138	138
P	48	48	48	48	48	53	53	53	53	53
Q	87	87	87	87	87	87	87	87	87	87
R	355	355	355	355	355	409	409	409	409	409
S	50	50	50	50	50	50	50	50	50	50
T	117	117	117	117	117	135	135	135	135	135
U	90	90	90	90	90	116	116	116	116	116
V	47	47	47	47	47	47	47	47	47	47
V1	28	28	28	28	28	28	28	28	28	28
W	195	195	195	195	195	238	238	238	238	238
X	219	219	219	219	219	252	252	252	252	252
Y	205	205	205	205	205	235	235	235	235	235
Z	109	109	109	109	109	122	122	122	122	122
∅	20	20	20	20	20	20	20	20	20	20
kg1	18	20	23	28	31	41	44	52	52	58
kg2	19	21	24	30	32	43	46	54	54	61

Notes: 1=YLV / YLH - 2=YLV/AF / YLH/AF (All dimensions in mm)

LOW BODY: YLVR



Dim	110	112	114	216	218
A	648	773	898	1023	1148
B	374	499	624	749	874
C	254	254	254	254	254
D	174	174	174	174	174
E	100	100	100	100	100
G	170	170	170	170	170
H	101	101	101	101	101
J	430	430	430	430	430
N	245	245	245	245	245
O	154	154	154	154	154
P	31	31	31	31	31
Q	47	47	47	47	47
R	304	304	304	304	304
S	88	88	88	88	88
T	87	87	87	87	87
U	65	65	65	65	65
V	47	47	47	47	47
W	84	84	84	84	84
X	214	214	214	214	214
Z	109	109	109	109	109
∅	20	20	20	20	20
kg	15	17	22	23	26

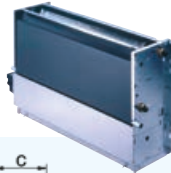
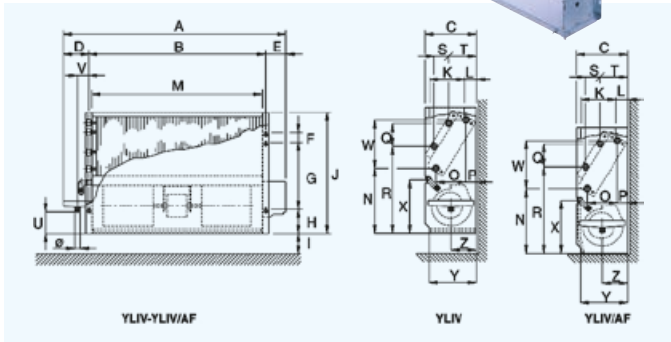
(All dimensions in mm)

Dimensions & Weights

- | YLIV & YLIH | YLIV-AF & YLIH-AF | YLIVR |
|--|--|--|
| <ul style="list-style-type: none"> ▶ V= vertical ▶ H= horizontal ▶ l= without cabinet | <ul style="list-style-type: none"> ▶ AF= front air intake ▶ V= vertical ▶ H= horizontal ▶ l= without cabinet | <ul style="list-style-type: none"> ▶ R= low body ▶ V= vertical ▶ l= without cabinet |

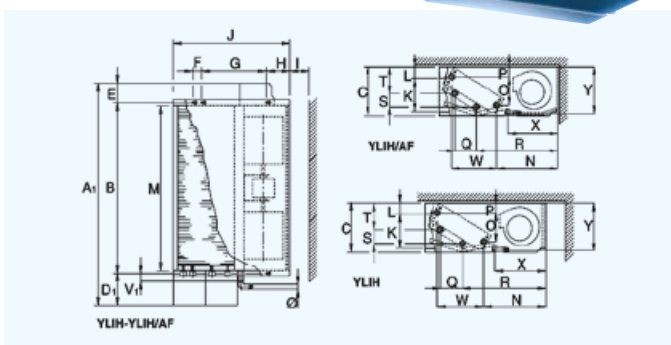
LASER: YLIV - YLIV/AF

VERTICAL



LASER: YLIH - YLIH/AF

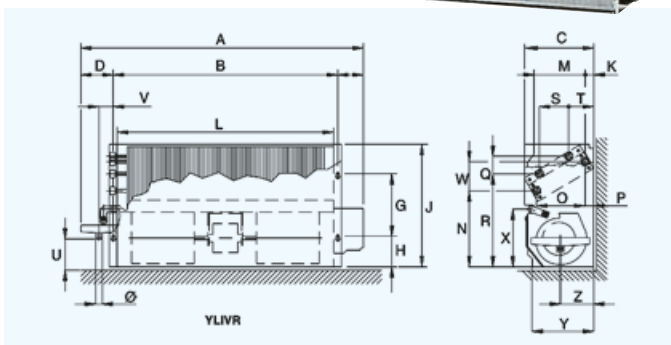
HORIZONTAL



Dim	110	112	114	216	218	220	222	224	226	328
A	555	680	805	930	1055	1180	1180	1430	1430	1680
A 1	574	699	824	949	1074	1199	1199	1449	1449	1699
B	374	499	624	749	874	999	999	1249	1249	1499
C	215	215	215	215	215	245	245	245	245	245
D	109	109	109	109	109	109	109	109	109	109
D 1	128	128	128	128	128	128	128	128	128	128
E	72	72	72	72	72	72	72	72	72	72
F	40	40	40	40	40	40	40	40	40	40
G	280	280	280	280	280	356	356	356	356	356
H	101	101	101	101	101	101	101	101	101	101
I	85	85	85	85	85	85	85	85	85	85
J	505	505	505	505	505	581	581	581	581	581
K	110	110	110	110	110	125	125	125	125	125
L	55	55	55	55	55	60	60	60	60	60
M	349	474	599	724	849	974	974	1224	1224	1474
N	266	266	266	266	266	299	299	299	299	299
O	113	113	113	113	113	138	138	138	138	138
P	48	48	48	48	48	53	53	53	53	53
Q	87	87	87	87	87	87	87	87	87	87
R	355	355	355	355	355	409	409	409	409	409
S	50	50	50	50	50	50	50	50	50	50
T	117	117	117	117	117	135	135	135	135	135
U	90	90	90	90	90	116	116	116	116	116
V	47	47	47	47	47	47	47	47	47	47
V 1	28	28	28	28	28	28	28	28	28	28
W	195	195	195	195	195	238	238	238	238	238
X	219	219	219	219	219	252	252	252	252	252
Y	200	200	200	200	200	230	230	230	230	230
Z	109	109	109	109	109	122	122	122	122	122
Ø	20	20	20	20	20	20	20	20	20	20
kg	10	13	16	19	22	29	31	38	38	42

(All dimensions in mm)

LOW BODY: YLIVR



Dim	110	112	114	216	218
A	555	680	805	930	1055
B	374	499	624	749	874
C	230	230	230	230	230
D	108	108	108	108	108
E	73	73	73	73	73
G	170	170	170	170	170
H	101	101	101	101	101
J	395	395	395	395	395
K	61	61	61	61	61
L	349	474	599	724	849
M	127	127	127	127	127
N	245	245	245	245	245
O	154	154	154	154	154
P	31	31	31	31	31
Q	47	47	47	47	47
R	304	304	304	304	304
S	88	88	88	88	88
T	87	87	87	87	87
U	65	65	65	65	65
V	47	47	47	47	47
W	84	84	84	84	84
X	214	214	214	214	214
Y	201	201	201	201	201
Z	109	109	109	109	109
Ø	20	20	20	20	20
kg	9	11	14	16	19

(All dimensions in mm)

LASER & LOW BODY Fan Coil Units

Compatibility tables



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



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



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

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 KREL	Parallel connection		Water sensor WS	Min. Temp. Thermostat TM
	J3A2 (2p)	J3AM (2p)	J3A2 (4p)	J3AM (4p)		ON/OFF CBL20	Modulating CBL30		
CSL00 Fan speed selector						•			•
CML00 Thermostat with manual fan speed and S/W change over	•		•			•			•
CEL00 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	•		•			•			•
CER00 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 & LOW BODY Fan Coil Units

Compatibility tables



Compatibility Options / Accessories / Models

		STANDARD								LOW BODY	
		LASER				CONCEALED				YLVR	YLIVR
Code	Designation	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)											
CSL00	Fan speed selector (built in)	•		•		•		•		•	•
CML00	Thermostat with manual fan speed and S/W change over	•		•		•		•		•	•
CEL00	Thermostat with manual fan speed, dead band, automatic change over	Compatible with electrical heaters								•	•
CEL20	Thermostat with automatic fan speed, dead band, automatic change over	Compatible with electrical heaters								•	•
CEL30	Thermostat with automatic fan speed, dead band, automatic change over for modulating valves	•		•		•		•		•	•
CBL20	Parallel connection for ON/OFF valve	•	•	•	•	•	•	•	•	•	•
CBL30	Parallel connection for modulating valve	•	•	•	•	•	•	•	•	•	•
Remote controllers and thermostats (wall mounted)											
CSR00	Fan speed selector (wall mounted)	•	•	•	•	•	•	•	•	•	•
CMR00	Thermostat with manual fan speed and S/W change over	•	•	•	•	•	•	•	•	•	•
CER00	Thermostat with manual fan speed, dead band, automatic change over	Compatible with electrical heaters								•	•
CER20	Thermostat with automatic fan speed, dead band, automatic change over	Compatible with electrical heaters								•	•
CER30	Thermostat with automatic fan speed, dead band, automatic change over for modulating valves	•	•	•	•	•	•	•	•	•	•
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 CEL/CER									
TM	Minimum temperature thermostat	•	•	•	•	•	•	•	•	•	•
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.

LASER ECM and LOW BODY ECM

0.6 to 9.2 kW



Technical features

Model		LASER ECM							LOW BODY ECM			
Sizes	(*)	512	514	516	520	522	524	528	512	514	516	
Total cooling capacity [kW]	(1)	max ...v	1.98	2.56	3.81	5.05	5.81	7.47	9.18	1.47	1.98	2.77
		med ...v	1.43	1.81	2.53	3.86	4.42	5.64	6.94	1.07	1.39	1.99
		min ...v	0.74	0.93	1.51	2.72	3.05	4.07	4.89	0.57	0.68	0.94
Sensible cooling capacity [kW]	(1)	max	1.65	2.12	3.14	4.13	4.80	6.09	7.51	1.36	1.75	2.35
		med	1.16	1.48	2.01	3.03	3.51	4.42	5.50	0.97	1.19	1.65
		min	0.54	0.78	1.21	2.09	2.34	3.13	3.74	0.49	0.57	0.78
Water flow in cooling [l/h]	(1)	max	340	439	654	866	997	1282	1575	252	340	475
		med	245	311	434	662	758	968	1187	184	238	341
		min	127	160	259	467	523	698	839	98	117	161
Pressure drop in cooling [kPa]	(1)	max	9.6	6.5	14.6	16.9	22.2	16.8	31.3	5.3	8.7	6.7
		med	5.4	3.4	8.5	10.6	13.5	10.0	18.5	3.5	4.6	3.8
		min	1.7	1.1	3.9	5.6	6.8	5.5	9.7	1.8	1.3	1.1
Heating capacity 2 pipes [kW]	(2)	max	2.79	3.69	5.37	6.86	7.97	10.03	12.35	2.19	2.87	3.96
		med	2.02	2.65	3.62	5.24	5.93	7.43	9.13	1.60	2.04	2.81
		min	1.06	1.38	2.22	3.71	4.15	5.39	6.43	0.88	1.08	1.43
Water flow in heating 2 pipes [l/h]	(2)	max	Water flow values as Cooling, accordingly to the EUROVENT standards and UNI ENV 1397									
		med										
		min										
Pressure drop in heating 2 pipes [kPa]	(2)	max	8.0	5.4	12.7	14.6	19.1	14.9	26.9	4.6	7.3	5.8
		med	4.5	2.9	7.4	8.9	11.5	8.8	15.6	3.0	3.9	3.2
		min	1.3	0.9	3.4	4.7	5.7	4.9	8.0	1.6	1.0	0.9
Heating capacity 4 pipes [kW]	(3)	max	2.04	2.65	3.74	5.53	6.32	8.12	8.89	1.64	2.95	3.54
		med	1.60	2.11	2.72	4.53	4.89	6.51	7.14	1.32	2.04	2.86
		min	0.97	1.29	1.97	3.53	3.79	5.11	5.59	0.66	1.10	1.38
Water flow in heating 4 pipes [l/h]	(3)	max	179	233	328	486	555	713	781	144	259	311
		med	140	186	239	398	429	572	627	116	179	251
		min	85	114	173	310	332	449	491	58	97	121
Pressure drop in heating 4 pipes [kPa]	(3)	max	5.7	10.0	20.8	21.2	27.2	45.4	56.9	4.1	10.8	20.9
		med	3.7	6.5	13.8	14.4	17.2	30.2	38.4	2.3	6.6	13.5
		min	1.4	2.7	6.8	8.9	10.0	19.1	24.2	0.7	2.6	5.1
Air flow [m ³ /h]	(3)	max	450	550	770	1080	1295	1525	1975	386	494	682
		med	294	366	475	748	883	1050	1312	255	321	443
		min	135	168	278	475	550	681	845	116	142	203
Sound power level [dB(A)]	(4)	max	55	59	57	57	62	63	69	57	60	60
		med	44	48	47	46	51	53	59	46	50	49
		min	29	29	37	35	39	43	48	30	34	30
Sound pressure level [dB(A)]	(4)	max	45	49	47	47	52	53	59	47	50	50
		med	34	38	38	36	41	43	49	36	40	39
		min	20	20	27	26	30	33	38	20	24	20
Power supply [V-ph-Hz]		230 / 1 / 50 + E										
Power input [W]	max		31	47	42	46	76	89	168	34	46	52
		Height mm	623	623	623	699	699	699	699	395	395	395
		Width mm	773	898	1023	1273	1273	1523	1773	680	805	930
Dimensions	Depth mm		224	224	224	254	254	254	254	230	230	230

- (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 riverberating time of 0.3 s.
 (*) 512 - 514 (3v-6v-9v)
 (*) 516 (2v-5v-10v)
 (*) 520 - 522 - 524 - 528 (3v-6v-10v)



Manufacturer reserves the rights to change specifications without prior notice.



LASER ECM and LOW BODY ECM

Compatibility tables

Compatibility Options / Accessories / Models

		STANDARD								LOW BODY-ECM	
		LASER-ECM				CONCEALED-ECM				YLVLR	YLIVR
Code	Designation	YLV	YLH	YLV-AF	YLH-AF	YLIV	YLIH	YLIV-AF	YLIH-AF		
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.