YEFB

FAN COIL UNITS

PRODUCT CATALOGUE

COOLING CAPACITIES: 3.3 to 24 kW

HEATING CAPACITIES: 3.9 to 30.4 kW

AIRFLOW: 494 to 4048 m³/h

EUROVENT CERTIFIED PERFORMANCE

CE

YORK®

A JOHNSON CONTROLS COMPANY

PC160-100 Rev. 0

(07/06) GB

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1 GENERAL SPECIFICATION

1.1 Applications

YEFB high pressure fan coil units fulfil the need for a high capacity, above-the- ceiling, multi-room air-conditioner, with the static pressure capability to deliver conditioned air through distribution ductwork or a simple discharge grille. The fan coil unit has been designed with a low overall height, allowing it to fit into limited ceiling spaces.

The YEFB range of fan coil units are available in 4 sizes, both cooling and heating, 2 pipe and 4 pipe systems, to meet the requirements of all types of buildings, from residential to shops, hotels and offices.

1.2 Operation

The effectiveness of a fan coil is due to the large surface area of the finned heat exchanger (coil) through which the air drawn from the room by the fan passes.

Heating operation: the hot water circulating in the finned coil supplies heat to the air passing through the heat exchanger.

Cooling operation: the chilled water circulating in the finned coil removes heat from the air passing through the heat exchanger. The air is also dehumidified and the condensed water vapour must be discharged from the unit. Suitable drains must be provided to drain the water that collects in the condensate tray.

1.3 Performance

The performance of a fan coil varies greatly with changes in the temperature and in the amount of water circulating through the coil, as well as with changes in the temperature and volume of air circulating through the coil.

The circulated air volume is determined by selecting the correct fan speed (MIN-MED-MAX), while the water flow rate is determined by the specifications of the system and of the pump. Thermal performances of the unit can be optimised by controlling the inlet flow rate of the water with proper regulating valves (ON/OFF or modulating), which can be supplied as accessories and must be fitted for cooling operation.

For each model, thermal performance in heating and cooling depends on the number of coil rows installed, which allows the the air treatment of a wide range of conditions.

In cooling operation, under the same operating conditions, dehumidification will increase if more coil rows are installed.

1.4 Product range

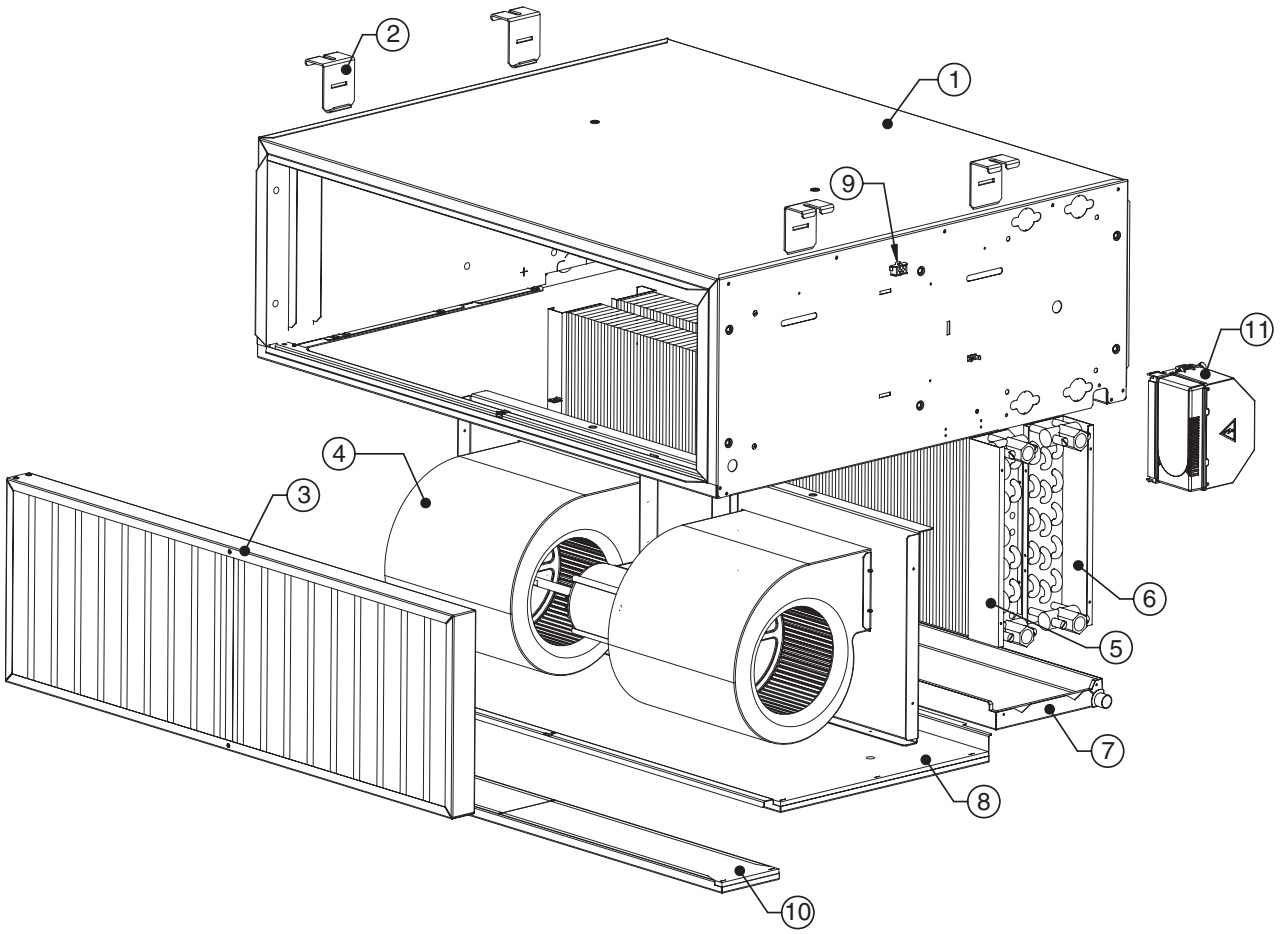
YEFB high pressure fan coil units are available in 4 sizes (100-400) for concealed horizontal installation, in 2 and 4 pipe systems.

1.5 Selection software

To select the correct size of a fan coil for any operating condition (including non-standard conditions), YORK offers a dedicated computer program, either available on CD-ROM or as a download from the YORK web site, on request.

"On-line Help" provides instructions for use of the selection software.

2 COMPONENT DESCRIPTION



1	Structure	4	Fan deck	7	Condensate tray	10	Filter access panel
2	Fixing brackets	5	Auxiliary coil (2 or 3 row)	8	Fan deck access panel	11	Electrical panel
3	Filter	6	Standard coil	9	Electrical connector		

2.1 Structure

The base unit is fabricated from galvanised steel. Special manufacturing techniques are use to give stiffness to the structure to reduce vibration and noise.

All cold panels are insulated with a polyurethane foam layer (self extinguishing grade in accordance with UL94 HBF), which provides thermal insulation and sound attenuation.

For ease of maintenance the structure is divided into 3 separate sections:

- condensate tray
- fan deck
- air filter.

The air intake and outlet are provided with a 21 mm flange for easy connection to external air ducting.

The units can be installed on the ceiling by using the four fixing brackets supplied with the unit.

2.2 Coils

For each unit size there are 3 and 4 row coils available. For 4 pipe systems 2 or 3 row coils can be installed. It is therefore possible to have a combination of maximum 7 rows (4 row cooling + 3 row heating).

All coils consist of 3/8" external diameter copper pipes mechanically bonded to the aluminium fin packs. Coils have copper headers and brass soldering connections.

Max. operating pressure 0,8 MPa, testing pressure 2,8 MPa.

For YEFB sizes 100, 200 and 300 each header is provided with a vent valve to allow air venting or water drainage from the coil. The vent valve can be easily reached from the outside of the unit. For YEFB size 400 the vent valve is only supplied with the valve kit (option).

YEFB units can be ordered with right (standard) or left water connections (facing the air outlet). If necessary, the coils can be easily removed and reversed on site.

Water connections are 1/2" GF (female threaded) for YEFB sizes 100, 200 and 300 and 1" GM (male threaded) for YEFB size 400.

2.3 Fan deck

The fan deck has a 3 speed motor and 2 centrifugal, galvanized steel, scroll fans. The motor and fans are mounted on a rigid, 1,5 mm thick, galvanized steel base.

All motors have permanently connected capacitor and thermal protection of the windings with manual recharge. Power supply is single phase 50 Hz, 230 V ±10%.

Each fan assembly is dynamically balanced, to minimise noise and component wear. The fans and motor can be easily be removed for maintenance.

2.4 Condensate tray

The condensate tray is constructed from galvanized steel and is completely insulated by a 6 mm thick closed cell polyurethane foam layer.

Condensed water is discharged from both sides (left or right) through a 20 mm diameter header.

2.5 Air Filter

The air filter is constructed from a washable polyester acrylic fibre, filtration class G4. A filter with higher filtering grade (F5) is also available upon request for each model.

The filter is only 45mm thick but by using a pleated construction a large filtering surface area can be acheived.

The filter section can be easily removed for cleaning and maintenance.

2.6 Electrical Panel

All models are provided with a terminal board with screw terminals contained in an ABS plastic box (IP30).

For YEFB sizes 300 and 400 a relay is installed on the electrical panel for connection of the power supply.

The electrical box must be fixed on the pre-arranged position on the side of the YEFB unit and connected to the plug located on the unit.

Each YEFB model is supplied with an connection diagram showing all the electrical components, factory fitted accessories and/or remote controllers ordered with the unit.

To ensure correct operation of the system, electrical connections must be made in accordance with the connection diagram.

2.7 Packing

Units are shipped in a carton box on individual wooden pallets.

3 ELECTRICAL ACCESSORIES

3.1 Electric Box CBL10

Self-extinguishing plastic box (class V0), which contains a 12 pole terminal board and a double insulated transformer (230/24 Vac 10 VA), for electrical connection of the modulating valves. It is supplied as standard for YEFB sizes 100 and 200 when the regulator CER30 is requested.

3.2 Electric Box CBL20

Self-extinguishing plastic box (class V0), which contains a 12 pole terminal board and a power relay card (230 Vac). This card is provided when either an electric heater is mounted on the fancoil unit or to control the fan speeds in a Master/Slave configuration.

The CBL20 can be used with the following regulators: CMR00, CER00 and CER20.

The CBL20 is supplied as standard for YEFB sizes 300 and 400.

3.3 Electric Box CBL30

Self-extinguishing plastic box (class V0), which contains a 12 pole terminal board, a double insulated transformer (230/24 Vac 10 VA) for electrical connection of the modulating valves and/or 24 Vac controls, a power relay card (24 Vac) to control the fan speeds in a Master/Slave configuration.

The CBL30 can be used with the following regulators: CER31, CER00 (with power supply 24V) and CER20 (with power supply 24V).

Ihe CBL20 is supplied as standard for YEFB sizes 300 and 400 when ordering the CER 31 control.

3.4 Electrical Heater KREL

Additional module for use with an electric heater. Supplied with 2 safety thermostats (one with automatic resetting and one with manual resetting), a power relay card and a terminal board for electrical connection.

The Electric heater power for each YEFB size is as follows:

YEFB Size	100	200	300	400
Power kW	3,0	3,0	6,0	9,0

The electric heater can only be controlled by CER00 or CER20 controllers.

3.5 Control Systems

A complete range of YORK controllers are available for use with YEFB units: speed selectors, electronic controls, microprocessor controls and digital regulators.

For more information refer to the technical manual for YORK controllers or visit the YORK web site: www.york.com.

3.6 Condensate Pump PC

Supplied separately the condensate pump is installed in cases where the condensate drain line must be routed upwards.

The power of the pump is different for each YEFB model.

Technical specifications for YEFB sizes 100 and 200:

- max water flow: 8 l/h
- max water discharge: 6m head
- max suction: 1m
- power supply: 230V 50Hz
- power: 18W
- alarm output: NC 8 A resistive
- thermal protection: (overheating) 90°C
- sound level: ≤ 28 dB(A) at 1 m

Technical specifications for YEFB sizes 300 and 400:

- max water flow: 20 l/h
- max water discharge: 6m head
- max suction: 2m
- power supply: 230V 50Hz
- power: 18W
- alarm output: NC 8 A resistive
- thermal protection: (overheating) 90°C
- sound level: ≤ 34 dB(A) at 1 m

4 HYDRAULIC ACCESSORIES

4.1 J3B2 - On/Off 3-way valves with 4 water connections, 0.75", 230V, for 2 or 4 pipe systems

On/Off 3-way regulating valves with bypass provided with thermoelectric actuator and connection tubes. The direct water flow is closed by removing power from the actuator.

Suitable for YEFB sizes 100 to 300 and available with 24V. Supplied loose together with insulating shell.

4.2 J3C2 - On/Off 3-way valves with 4 water connections, 1", 230V, for 2 or 4 pipe systems

On/Off 3-way regulating valves with bypass provided with thermoelectric actuator and connection tubes. The direct water flow is closed by removing power to the actuator.

Suitable for YEFB size 400 and available also with 24V. Supplied loose together with insulating shell.

4.3 J3BM - Modulating 3-way valves with 4 water connections, 0.75", 24V, for 2 or 4 pipe systems

Modulating 3-way regulating valves with bypass provided with modulating actuator and connection tubes. The direct water flow is closed by removing power to the actuator.

Suitable for YEFB sizes 100 to 300. Supplied loose together with insulating shell.

4.4 J3CM - Modulating 3-way valves with 4 water connections, 1", 24V, for 2 or 4 pipe systems

Modulating 3-way regulating valves with bypass provided with modulating actuator and connection tubes. The direct water flow is closed by removing power to the actuator.

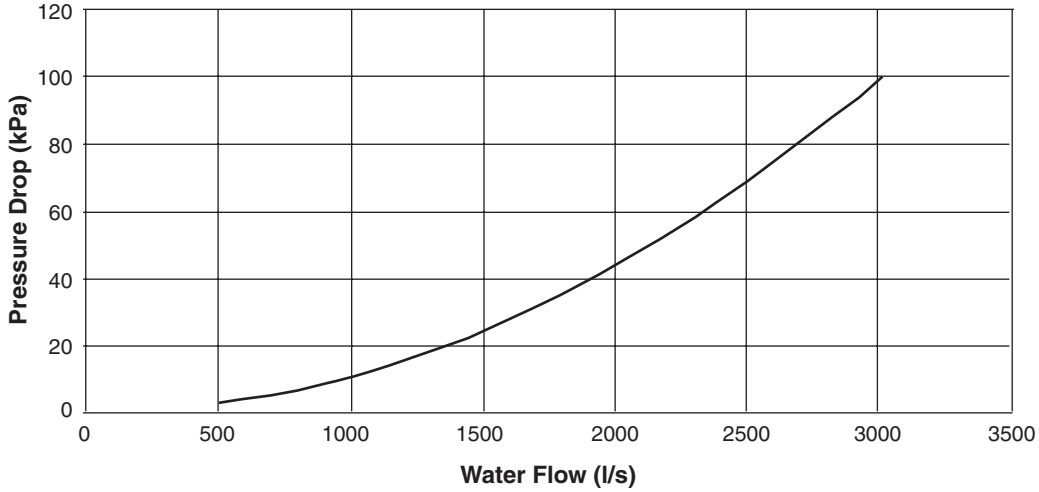
Suitable for YEFB size 400. Supplied loose together with insulating shell.

Valve Body Specification		
Model	**J3B2 - J3BM**	**J3C2 - J3CM**
Nominal pressure	PN16	PN16
Water connection	¾" Gf	1" Gf
kv: water flow rate	3,0	5,0
Max press. drop	100 kPa	62 kPa
Fluid temperature 2 - 95 °C in compliance to PED 23/97/CE		

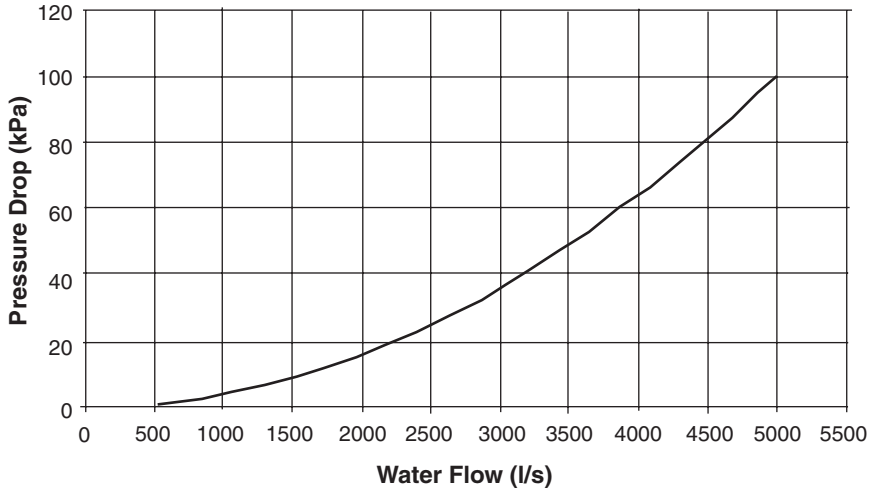
Actuator Technical Specification					
Model	**Power supply V-ph-Hz**	**Running time s**	**Control signal Vcc**	**Protection grade**	**Controller compatibility**
J3B2 – J3C2	230-1-50(60)	180 - 260		IP 42	TAD10, CMR00, CER00, CER20
J3BM – J3CM	24-1-50(60)		0 - 10	IP 40	CER30, CER31

4.5 Pressure Drop Graphs

3 Way 3/4" Valve



3 Way 1" Valve

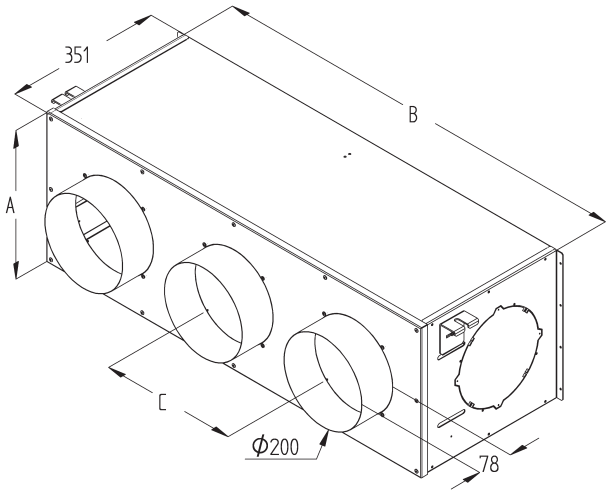


5 OTHER ACCESSORIES

5.1 Air delivery plenum - PM

The air delivery plenum is constructed from galvanized steel sheet and internally insulated with 15mm polyurethane foam. The plenum is provided with fixing supports and spigots for the connection to air ducts. It must be installed on the air outlet of the unit.

Pre-drilled holes on the sides of the plenum allow for the front spigots to be re-located to the sides of the air delivery plenum.



YEFB Size		100	200	300	400
Spigots	Qty	3	3	4	5
Ø ext. diameter	mm	200	200	200	200
Dimension A	mm	331	331	350	440
Dimension B	mm	954	954	1204	1597
Dimension C	mm	306	306	300	311

5.2 F5 Air Filter

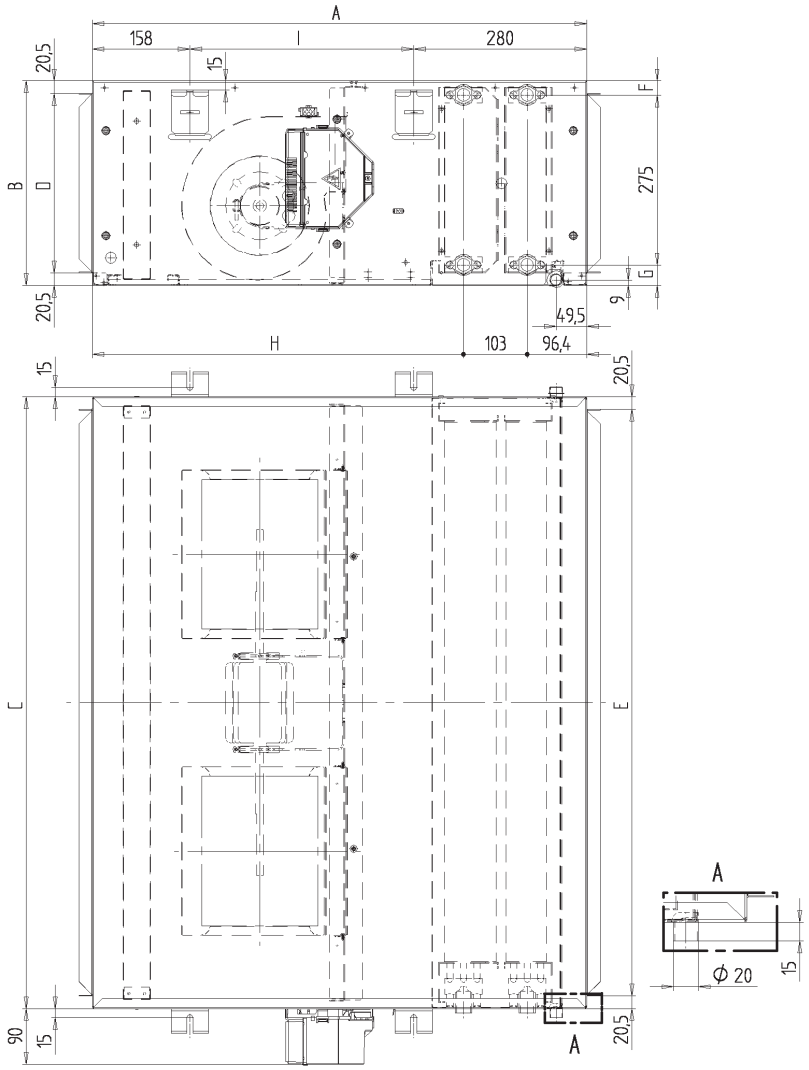
High filtering grade air filter consisting of a polyester acrylic fibre foam, filtration class F5.

5.3 RAL Painting

The complete structure of the unit can be painted with oven dried epoxy powder paint. Standard colour is white (RAL 9001) but the full range of RAL colours is available upon request, with possible delays in delivery lead time.

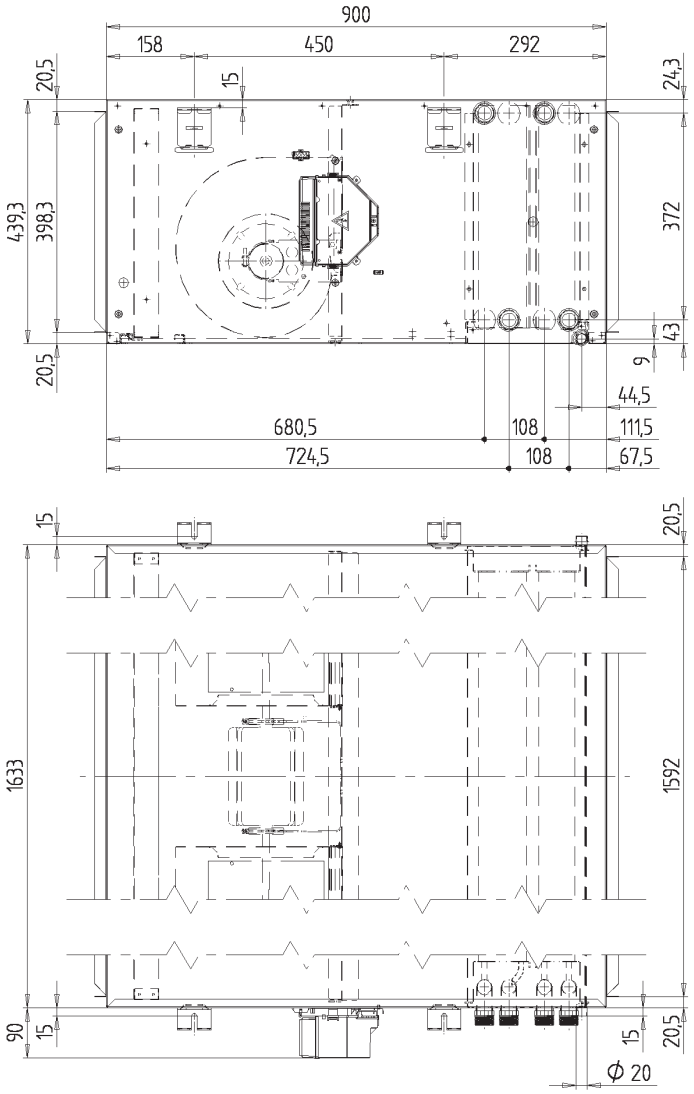
6 TECHNICAL DATA

6.1 Dimensions YEFB Sizes 100 -300



YEFB Model		120	130	140	220	230	240	320	330	340
Dimension A	mm	800	800	800	800	800	800	900	900	900
Dimension B	mm	330	330	330	330	330	330	350	350	350
Dimension C	mm	990	990	990	990	990	990	1240	1240	1240
Dimension D	mm	290	290	290	290	290	290	309	309	309
Dimension E	mm	949	949	949	949	949	949	1199	1199	1199
Dimension F	mm	23	23	23	23	23	23	25	25	25
Dimension G	mm	33	33	33	33	33	33	50	50	50
Dimension H	mm	600	600	600	600	600	600	700	700	700
Dimension I	mm	362	362	362	362	362	362	462	462	462
Weight	kg	46	47	48	48	49	50	63	64	65
Water volume	l	1.2	2.0	2.6	1.2	2.0	2.6	1.9	2.9	3.7
Water connections		G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F	G 1/2" F

6.2 Dimensions YEFB Sizes 400



YEFB Model		420	430	440
Weight	kg	84	85	86
Water content	l	3.4	4.6	6.3
Water connections		G 1" M	G 1" M	G 1" M

6.3 Air Volumes

Air volumes refer to standard fan coils with clean air filter, 20 °C room temperature at sea level and without plenum.

		External Static Pressure (kPa)										
		0	25	50	75	100	125	150	175	200	225	250
YEFB	SPEED	Airflow (m^3/h)										
120	max	1506	1383	1164	849	438	-	-	-	-	-	-
	med	1213	1108	925	664	325	-	-	-	-	-	-
	min	800	656	499	329	-	-	-	-	-	-	-
130	max	1491	1370	1153	840	433	-	-	-	-	-	-
	med	1202	1098	916	658	322	-	-	-	-	-	-
	min	793	650	494	325	-	-	-	-	-	-	-
140	max	1462	1343	1130	824	425	-	-	-	-	-	-
	med	1178	1076	898	645	316	-	-	-	-	-	-
	min	777	637	484	319	-	-	-	-	-	-	-
220	max	2473	2355	2179	1949	1662	1320	922	467	-	-	-
	med	1781	1699	1569	1388	1159	881	554	177	-	-	-
	min	1366	1298	1186	1031	832	589	303	-	-	-	-
230	max	2449	2332	2158	1930	1646	1308	913	462	-	-	-
	med	1764	1683	1553	1375	1147	872	549	175	-	-	-
	min	1353	1285	1174	1021	824	583	300	-	-	-	-
240	max	2401	2286	2116	1892	1614	1282	895	453	-	-	-
	med	1729	1650	1523	1348	1125	855	538	172	-	-	-
	min	1326	1260	1151	1001	808	572	294	-	-	-	-
320	max	2915	2803	2665	2501	2311	2096	1855	1588	1297	980	636
	med	2182	2110	2014	1893	1747	1575	1379	1158	912	641	344
	min	1623	1536	1436	1323	1195	1054	900	732	551	355	-
330	max	2887	2775	2639	2477	2289	2076	1837	1573	1284	970	629
	med	2160	2090	1994	1875	1730	1560	1366	1146	903	634	341
	min	1608	1521	1422	1310	1183	1043	891	725	546	352	-
340	max	2830	2721	2587	2428	2244	2035	1801	1542	1259	951	617
	med	2118	2049	1955	1838	1696	1529	1339	1124	885	622	334
	min	1576	1491	1394	1284	1160	1023	874	711	535	345	-
420	max	4453	4336	4169	3951	3684	3366	2998	2580	2111	1592	1024
	med	3791	3685	3539	3350	3120	2848	2534	2179	1782	1344	864
	min	3047	2984	2881	2739	2559	2338	2080	1782	1445	1069	-
430	max	4409	4294	4129	3913	3649	3333	2969	2555	2091	1577	1014
	med	3755	3650	3505	3317	3090	2820	2509	2158	1765	1331	856
	min	3017	2955	2853	2712	2534	2315	2059	1765	1431	1059	-
440	max	4323	4210	4048	3836	3577	3268	2911	2505	2050	1546	994
	med	3681	3578	3436	3252	3029	2765	2460	2116	1730	1305	839
	min	2958	2897	2797	2659	2484	2270	2019	1730	1403	1038	-

6.4 Operational Limits

Max. operating pressure (water side)	MPa	0.8
Min. inlet cold water temperature	°C	-5
Max. inlet cold water temperature	°C	20
Min. inlet hot water temperature	°C	35
Max. inlet hot water temperature	°C	85

6.5 Capacities - YEFB Models 120, 130, 140

Cooling and Heating Capacities

Cooling: Room temperature: 27 °C D.B. - 48% R.H. - Water temperature: 7/12 °C
Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 50 °C

				External Static Pressure (kPa)										
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
120	max	Total cooling capacity	W	5305	5069	4603	3810	2431	-	-	-	-	-	-
		Sensible cooling capacity	W	4751	4482	3972	3161	1893	-	-	-	-	-	-
		Heating capacity	W	7851	12525	11162	8943	5367	-	-	-	-	-	-
		Water flow	l/h	912	871	791	655	418	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	21.2	19.6	16.5	11.8	5.4	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	17.3	14.8	12.5	9.0	4.1	-	-	-	-	-	-
	med	Total cooling capacity	W	4713	4474	4018	3251	1945	-	-	-	-	-	-
		Sensible cooling capacity	W	4090	3837	3366	2626	1482	-	-	-	-	-	-
		Heating capacity	W	6811	10793	9512	7447	4210	-	-	-	-	-	-
		Water flow	l/h	810	769	691	559	334	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	17.2	15.7	13.0	9.0	3.6	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	14.0	11.9	9.9	6.8	2.7	-	-	-	-	-	-
	min	Total cooling capacity	W	3670	3224	2670	1963	-	-	-	-	-	-	-
		Sensible cooling capacity	W	3025	2603	2101	1497	-	-	-	-	-	-	-
		Heating capacity	W	5086	7377	5960	4254	-	-	-	-	-	-	-
		Water flow	l/h	631	554	459	337	-	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	11.1	8.8	6.3	3.7	-	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	9.0	6.7	4.8	2.8	-	-	-	-	-	-	-
130	max	Total cooling capacity	W	7090	6722	6009	4824	2895	-	-	-	-	-	-
		Sensible cooling capacity	W	5725	5379	4725	3690	2125	-	-	-	-	-	-
		Heating capacity	W	9551	15080	13257	10346	5913	-	-	-	-	-	-
		Water flow	l/h	1219	1156	1033	829	498	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	48.3	44.0	36.1	24.6	10.0	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	39.3	33.3	27.3	18.5	7.6	-	-	-	-	-	-
	med	Total cooling capacity	W	6177	5815	5132	4027	2261	-	-	-	-	-	-
		Sensible cooling capacity	W	4878	4551	3953	3027	1637	-	-	-	-	-	-
		Heating capacity	W	8151	12769	11088	8467	4549	-	-	-	-	-	-
		Water flow	l/h	1062	1000	882	692	389	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	37.9	34.1	27.4	17.9	6.5	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	30.8	25.8	20.7	13.5	4.9	-	-	-	-	-	-
	min	Total cooling capacity	W	4627	3990	3220	2279	-	-	-	-	-	-	-
		Sensible cooling capacity	W	3525	2997	2379	1651	-	-	-	-	-	-	-
		Heating capacity	W	5890	8382	6635	4588	-	-	-	-	-	-	-
		Water flow	l/h	795	686	554	392	-	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	22.8	17.6	12.1	6.6	-	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	18.5	13.3	9.1	5.0	-	-	-	-	-	-	-
140	max	Total cooling capacity	W	8315	7835	6915	5430	3116	-	-	-	-	-	-
		Sensible cooling capacity	W	6524	6095	5288	4049	2239	-	-	-	-	-	-
		Heating capacity	W	10993	17214	14920	11368	6210	-	-	-	-	-	-
		Water flow	l/h	1430	1347	1189	933	536	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	28.5	25.7	20.6	13.5	5.1	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	23.2	19.4	15.6	10.2	3.8	-	-	-	-	-	-
	med	Total cooling capacity	W	7130	6668	5809	4452	2390	-	-	-	-	-	-
		Sensible cooling capacity	W	5472	5078	4358	3266	1701	-	-	-	-	-	-
		Heating capacity	W	9217	14315	12259	9134	4689	-	-	-	-	-	-
		Water flow	l/h	1226	1146	999	765	411	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	21.8	19.4	15.2	9.5	3.2	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	17.7	14.6	11.5	7.2	2.4	-	-	-	-	-	-
	min	Total cooling capacity	W	5182	4407	3491	2411	-	-	-	-	-	-	-
		Sensible cooling capacity	W	3848	3229	2523	1715	-	-	-	-	-	-	-
		Heating capacity	W	6451	9032	7013	4727	-	-	-	-	-	-	-
		Water flow	l/h	891	758	600	415	-	-	-	-	-	-	-
		Water press. drop (cool.)	kPa	12.4	9.3	6.2	3.2	-	-	-	-	-	-	-
		Water press. drop (heat.)	kPa	10.1	7.1	4.7	2.4	-	-	-	-	-	-	-

Heating Capacities

Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 70/60 °C
Heating capacities for units with 2 and 3 row coils are the same as 2 and 4 pipe systems. The heating capacities of the 4 row coil unit refers to a 2 pipe system only.

				External Static Pressure (kPa)										
YEFB	**SPEED**			**0**	**25**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**225**	**250**
120	max	Heating capacity	W	13663	12891	11418	9055	5342	-	-	-	-	-	-
		Water flow	l/h	1194	1127	998	792	467	-	-	-	-	-	-
		Water press. Drop	kPa	25.7	23.2	18.8	12.5	4.9	-	-	-	-	-	-
	med	Heating capacity	W	11761	11025	9659	7493	4176	-	-	-	-	-	-
		Water flow	l/h	1028	964	844	655	365	-	-	-	-	-	-
		Water press. Drop	kPa	19.8	17.6	14	8.9	3.2	-	-	-	-	-	-
	min	Heating capacity	W	8659	7420	5949	4211	-	-	-	-	-	-	-
		Water flow	l/h	757	649	520	368	-	-	-	-	-	-	-
		Water press. Drop	kPa	11.5	8.8	6.0	3.2	-	-	-	-	-	-	-
130	max	Heating capacity	W	16072	15083	13197	10244	5798	-	-	-	-	-	-
		Water flow	l/h	1405	1318	1154	896	507	-	-	-	-	-	-
		Water press. Drop	kPa	46.8	41.9	33.1	21.2	7.8	-	-	-	-	-	-
	med	Heating capacity	W	13633	12699	10989	8346	4445	-	-	-	-	-	-
		Water flow	l/h	1192	1110	961	730	389	-	-	-	-	-	-
		Water press. Drop	kPa	35.1	30.9	24	14.8	4.9	-	-	-	-	-	-
	min	Heating capacity	W	9753	8257	6502	4485	-	-	-	-	-	-	-
		Water flow	l/h	853	722	568	392	-	-	-	-	-	-	-
		Water press. Drop	kPa	19.4	14.5	9.5	5.0	-	-	-	-	-	-	-
140	max	Heating capacity	W	18817	17534	15144	11478	6220	-	-	-	-	-	-
		Water flow	l/h	1645	1533	1324	1003	544	-	-	-	-	-	-
		Water press. Drop	kPa	27.6	24.3	18.8	11.5	3.9	-	-	-	-	-	-
	med	Heating capacity	W	15693	14518	12392	9191	4687	-	-	-	-	-	-
		Water flow	l/h	1372	1269	1083	803	410	-	-	-	-	-	-
		Water press. Drop	kPa	20	17.5	13.2	7.8	2.4	-	-	-	-	-	-
	min	Heating capacity	W	10889	9086	7034	4724	-	-	-	-	-	-	-
		Water flow	l/h	952	794	615	413	-	-	-	-	-	-	-
		Water press. Drop	kPa	10.5	7.7	4.9	2.4	-	-	-	-	-	-	-

6.6 Capacities - YEFB Models 220, 230, 240

Cooling and Heating Capacities
Cooling: Room temperature: 27 °C D.B. - 48% R.H. - Water temperature: 7/12 °C
Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 50 °C

				External Static Pressure (kPa)										
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
220	max	Total cooling capacity	W	6767*	6616*	6381*	6046	5584	4941	4010	2547	-	-	-
		Sensible cooling capacity	W	6593*	6392*	6079*	5650	5078	4339	3359	1994	-	-	-
		Heating capacity	W	10597	10304	9850	9216	8357	7205	5635	3364	-	-	-
		Water flow	l/h	1163	1137	1097	1039	960	849	689	438	-	-	-
		Water press. drop (cool.)	kPa	32.6	31.3	29.4	26.7	23.2	18.7	13	5.8	-	-	-
		Water press. drop (heat.)	kPa	26.5	25.5	23.9	21.7	18.9	15.2	10.5	4.7	-	-	-
	med	Total cooling capacity	W	5783	5647	5420	5079	4592	3899	2874	1193	-	-	-
		Sensible cooling capacity	W	5318	5156	4885	4493	3961	3249	2282	0.878	-	-	-
		Heating capacity	W	8723	8473	8059	7447	6604	5455	3850	1470	-	-	-
		Water flow	l/h	994	971	932	873	789	670	494	205	-	-	-
		Water press. drop (cool.)	kPa	24.7	23.7	22.0	19.6	16.5	12.3	7.2	1.5	-	-	-
		Water press. drop (heat.)	kPa	20.1	19.3	17.9	16.0	13.4	10	5.9	1.2	-	-	-
	min	Total cooling capacity	W	5035	4895	4653	4289	3762	2998	1842	-	-	-	-
		Sensible cooling capacity	W	4444	4289	4023	3642	3114	2395	1397	-	-	-	-
		Heating capacity	W	7371	7127	6709	6091	5234	4038	2363	-	-	-	-
		Water flow	l/h	866	842	800	737	647	515	317	-	-	-	-
		Water press. drop (cool.)	kPa	19.3	18.4	16.8	14.6	11.6	7.8	3.3	-	-	-	-
		Water press. drop (heat.)	kPa	15.8	15.0	13.7	11.9	9.4	6.3	2.7	-	-	-	-
230	max	Total cooling capacity	W	9444*	9198	8814	8273	7532	6526	5120	3052	-	-	-
		Sensible cooling capacity	W	8132*	7860	7453	6894	6154	5197	3944	2246	-	-	-
		Heating capacity	W	13411	12990	12342	11447	10250	8681	6594	3739	-	-	-
		Water flow	l/h	1624	1581	1515	1422	1295	1122	880	525	-	-	-
		Water press. drop (cool.)	kPa	80.1	76.4	70.9	63.4	53.8	41.8	27.3	11	-	-	-
		Water press. drop (heat.)	kPa	65.2	62.1	57.6	51.6	43.7	34	22.1	8.9	-	-	-
	med	Total cooling capacity	W	7850	7633	7270	6738	5988	4955	3501	1321	-	-	-
		Sensible cooling capacity	W	6470	6255	5899	5396	4706	3803	2602	0.937	-	-	-
		Heating capacity	W	10760	10411	9835	9005	7864	6358	4339	1540	-	-	-
		Water flow	l/h	1350	1312	1250	1158	1029	852	602	227	-	-	-
		Water press. drop (cool.)	kPa	57.8	55.1	50.5	44.2	35.9	25.7	14	2.5	-	-	-
		Water press. drop (heat.)	kPa	47.0	44.7	41.1	35.9	29.2	20.9	11.3	2	-	-	-
	min	Total cooling capacity	W	6669	6452	6081	5534	4758	3670	2129	-	-	-	-
		Sensible cooling capacity	W	5330	5131	4791	4304	3633	2736	1537	-	-	-	-
		Heating capacity	W	8900	8567	8007	7197	6076	4566	2550	-	-	-	-
		Water flow	l/h	1147	1109	1045	951	818	631	366	-	-	-	-
		Water press. drop (cool.)	kPa	43.4	41.0	36.9	31.3	24	15.2	5.8	-	-	-	-
		Water press. drop (heat.)	kPa	35.3	33.3	30.0	25.4	19.5	12.3	4.7	-	-	-	-
240	max	Total cooling capacity	W	11462*	11126	10608	9878	8896	7580	5794	3295	-	-	-
		Sensible cooling capacity	W	9586*	9238	8712	7996	7063	5866	4345	2374	-	-	-
		Heating capacity	W	16034	15474	14620	13441	11888	9883	7300	3947	-	-	-
		Water flow	l/h	1971	1913	1824	1698	1529	1303	996	567	-	-	-
		Water press. drop (cool.)	kPa	50.2	47.7	43.8	38.6	32.1	24.3	15.1	5.6	-	-	-
		Water press. drop (heat.)	kPa	40.8	38.8	35.6	31.4	26.1	19.7	12.3	4.5	-	-	-
	med	Total cooling capacity	W	9314	9029	8552	7856	6893	5591	3823	1357	-	-	-
		Sensible cooling capacity	W	7456	7186	6744	6110	5267	4177	2778	0.951	-	-	-
		Heating capacity	W	12543	12095	11356	10297	8870	7014	4629	1555	-	-	-
		Water flow	l/h	1601	1552	1470	1351	1185	961	657	233	-	-	-
		Water press. drop (cool.)	kPa	34.9	33.0	30.0	25.8	20.5	14.2	7.3	1.2	-	-	-
		Water press. drop (heat.)	kPa	28.3	26.8	24.4	21.0	16.7	11.5	5.9	1	-	-	-
	min	Total cooling capacity	W	7765	7487	7010	6315	5346	4027	2238	-	-	-	-
		Sensible cooling capacity	W	6031	5784	5368	4780	3981	2934	1588	-	-	-	-
		Heating capacity	W	10159	9744	9041	8037	6677	4896	2622	-	-	-	-
		Water flow	l/h	1335	1287	1205	1086	919	692	385	-	-	-	-
		Water press. drop (cool.)	kPa	25.3	23.7	21.1	17.6	13.1	8	2.8	-	-	-	-
		Water press. drop (heat.)	kPa	20.6	19.3	17.2	14.3	10.6	6.5	2.3	-	-	-	-

*With these calculating conditions there is the risk of condensing water spray. It is recommended to vary the water temperature or the relative humidity value.

Heating Capacities

Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 70/60 °C
Heating capacities for units with 2 and 3 row coils are the same as 2 and 4 pipe systems. The heating capacities of the 4 row coil unit refers to a 2 pipe system only.

				External Static Pressure (kPa)										
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
220	max	Heating capacity	W	18831	18270	17409	16210	14605	12481	9635	5633	-	-	-
		Water flow	l/h	1646	1597	1522	1417	1277	1091	842	492	-	-	-
		Water press. Drop	kPa	45.2	42.9	39.4	34.8	28.9	21.9	13.9	5.4	-	-	-
	med	Heating capacity	W	15286	14821	14047	12924	11382	9311	6484	2416	-	-	-
		Water flow	l/h	1336	1296	1228	1130	995	814	567	211	-	-	-
		Water press. Drop	kPa	31.3	29.7	27	23.3	18.7	13.1	6.9	1.2	-	-	-
	min	Heating capacity	W	12777	12331	11569	10456	8922	6811	3919	-	-	-	-
		Water flow	l/h	1117	1078	1011	914	780	595	343	-	-	-	-
		Water press. Drop	kPa	22.9	21.5	19.2	16.1	12.2	7.6	2.9	-	-	-	-
230	max	Heating capacity	W	22906	22151	21001	19407	17300	14553	10959	6128	-	-	-
		Water flow	l/h	2002	1936	1836	1696	1512	1272	958	536	-	-	-
		Water press. Drop	kPa	87.4	82.4	75	65.3	53.3	39.3	23.9	8.6	-	-	-
	med	Heating capacity	W	18192	17585	16575	15126	13152	10553	7139	2497	-	-	-
		Water flow	l/h	1590	1537	1449	1322	1150	923	624	218	-	-	-
		Water press. Drop	kPa	58.3	54.9	49.4	42.1	32.9	22.3	11.2	1.8	-	-	-
	min	Heating capacity	W	14936	14359	13378	11996	10078	7521	4154	-	-	-	-
		Water flow	l/h	1306	1255	1169	1049	881	657	363	-	-	-	-
		Water press. Drop	kPa	41.2	38.4	33.9	28.0	20.6	12.3	4.3	-	-	-	-
240	max	Heating capacity	W	27842	26829	25288	23174	20405	16862	12356	6608	-	-	-
		Water flow	l/h	2434	2345	2211	2026	1784	1474	1080	578	-	-	-
		Water press. Drop	kPa	54.9	51.5	46.4	39.8	31.8	22.7	13.1	4.4	-	-	-
	med	Heating capacity	W	21571	20773	19461	17588	15086	11860	7768	2582	-	-	-
		Water flow	l/h	1886	1816	1701	1537	1319	1037	679	226	-	-	-
		Water press. Drop	kPa	35.1	32.8	29.2	24.5	18.7	12.2	5.8	0.8	-	-	-
	min	Heating capacity	W	17347	16617	15385	13634	11278	8225	4371	-	-	-	-
		Water flow	l/h	1516	1453	1345	1192	986	719	382	-	-	-	-
		Water press. Drop	kPa	23.9	22.2	19.3	15.6	11.2	6.4	2.1	-	-	-	-

6.7 Capacities - YEFB Models 320, 330, 340

Cooling and Heating Capacities
Cooling: Room temperature: 27 °C D.B. - 48% R.H. - Water temperature: 7/12 °C
Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 50 °C

				External Static Pressure (kPa)										
YEFB	**SPEED**			**0**	**25**	**50**	**75**	**100**	**125**	**150**	**175**	**200**	**225**	**250**
320	max	Total cooling capacity	W	9572*	9378	9130	8824	8450	7997	7448	6781	5966	4946	3626
		Sensible cooling capacity	W	8159*	7954	7698	7385	7011	6567	6042	5423	4694	3811	2724
		Heating capacity	W	13473	13149	12741	12239	11635	10915	10061	9039	7828	6363	4573
		Water flow	l/h	1646	1612	1570	1517	1453	1375	1281	1166	1026	850	623
		Water press. drop (cool.)	kPa	70.4	67.9	64.8	61.0	56.5	51.3	45.3	38.4	30.6	22	12.8
		Water press. drop (heat.)	kPa	57.3	55.2	52.7	49.6	46.0	41.7	36.8	31.2	24.9	17.9	10.3
	med	Total cooling capacity	W	8182	8028	7815	7538	7187	6747	6206	5538	4705	3647	2242
		Sensible cooling capacity	W	6746	6594	6394	6128	5799	5392	4907	4318	3610	2742	1638
		Heating capacity	W	11204	10962	10632	10199	9657	8987	8180	7206	6026	4602	2720
		Water flow	l/h	1407	1380	1344	1296	1236	1160	1067	952	809	627	385
		Water press. drop (cool.)	kPa	53.4	51.7	49.3	46.2	42.5	38	32.8	26.9	20.2	12.9	5.5
		Water press. drop (heat.)	kPa	43.4	42.0	40.1	37.6	34.6	30.9	26.7	21.8	16.4	10.5	4.4
	min	Total cooling capacity	W	6873	6643	6368	6044	5655	5199	4662	4021	3254	2300	-
		Sensible cooling capacity	W	5507	5297	5050	4760	4420	4026	3572	3043	2426	1682	-
		Heating capacity	W	9178	8830	8420	7940	7375	6721	5964	5079	4067	2796	-
		Water flow	l/h	1182	1142	1095	1039	972	894	801	691	559	395	-
		Water press. drop (cool.)	kPa	39.3	37.0	34.4	31.3	27.9	24.1	19.9	15.3	10.5	5.7	-
		Water press. drop (heat.)	kPa	32.0	30.1	27.9	25.5	22.6	19.5	16.1	12.4	8.5	4.6	-
330	max	Total cooling capacity	W	11744	11479	11147	10736	10236	9636	8914	8046	6995	5704	4074
		Sensible cooling capacity	W	9723	9458	9136	8741	8267	7705	7045	6275	5370	4299	2999
		Heating capacity	W	16152	15727	15199	14553	13775	12848	11765	10482	8969	7172	4988
		Water flow	l/h	2019	1973	1916	1846	1760	1657	1532	1383	1203	981	700
		Water press. drop (cool.)	kPa	49.4	47.5	45.1	42.2	38.8	34.9	30.4	25.4	19.9	13.9	7.7
		Water press. drop (heat.)	kPa	40.2	38.6	36.6	34.3	31.6	28.4	24.7	20.6	16.1	11.3	6.2
	med	Total cooling capacity	W	9877	9676	9394	9032	8572	8001	7305	6449	5405	4100	2438
		Sensible cooling capacity	W	7929	7743	7484	7152	6740	6236	5632	4912	4055	3019	1752
		Heating capacity	W	13222	12909	12485	11943	11257	10417	9410	8201	6764	5022	2897
		Water flow	l/h	1698	1664	1615	1553	1474	1376	1256	1109	929	705	419
		Water press. drop (cool.)	kPa	36.5	35.2	33.4	31.1	28.4	25.2	21.4	17.2	12.6	7.8	3.1
		Water press. drop (heat.)	kPa	29.6	28.6	27.1	25.3	23.1	20.5	17.4	14	10.2	6.3	2.5
	min	Total cooling capacity	W	8166	7865	7511	7094	6599	6020	5350	4561	3632	2506	-
		Sensible cooling capacity	W	6379	6116	5812	5456	5036	4558	4010	3381	2656	1803	-
		Heating capacity	W	10658	10218	9706	9110	8409	7606	6690	5632	4432	2983	-
		Water flow	l/h	1404	1352	1291	1220	1134	1035	920	784	624	431	-
		Water press. drop (cool.)	kPa	26.1	24.4	22.5	20.4	17.9	15.3	12.4	9.4	6.3	3.3	-
		Water press. drop (heat.)	kPa	21.2	19.8	18.3	16.5	14.5	12.4	10.1	7.6	5.1	2.6	-
340	max	Total cooling capacity	W	14918	14533	14056	13471	12763	11918	10914	9723	8311	6617	4560
		Sensible cooling capacity	W	12009	11646	11201	10654	10002	9250	8368	7356	6187	4841	3269
		Heating capacity	W	20184	19585	18837	17927	16841	15566	14080	12359	10375	8081	5415
		Water flow	l/h	2565	2498	2417	2316	2194	2049	1876	1672	1429	1138	784
		Water press. drop (cool.)	kPa	44.0	42.0	39.6	36.7	33.4	29.6	25.4	20.7	15.7	10.5	5.5
		Water press. drop (heat.)	kPa	35.7	34.1	32.2	29.9	27.1	24.1	20.6	16.8	12.7	8.5	4.4
	med	Total cooling capacity	W	12259	11976	11582	11077	10442	9661	8723	7590	6230	4593	2603
		Sensible cooling capacity	W	9552	9300	8951	8513	7965	7300	6525	5607	4538	3293	1833
		Heating capacity	W	16079	15653	15065	14319	13392	12270	10947	9387	7568	5456	3007
		Water flow	l/h	2108	2059	1991	1904	1795	1661	1500	1305	1071	790	448
		Water press. drop (cool.)	kPa	31.1	29.9	28.2	26.0	23.5	20.5	17.1	13.4	9.5	5.5	2
		Water press. drop (heat.)	kPa	25.3	24.3	22.9	21.1	19.1	16.6	13.9	10.9	7.7	4.5	1.7
	min	Total cooling capacity	W	9885	9478	9000	8441	7786	7029	6165	5165	4015	2683	-
		Sensible cooling capacity	W	7488	7148	6751	6293	5765	5164	4489	3723	2863	1890	-
		Heating capacity	W	12589	12008	11334	10554	9651	8630	7482	6184	4730	3103	-
		Water flow	l/h	1699	1629	1547	1451	1338	1208	1060	888	690	461	-
		Water press. drop (cool.)	kPa	21.3	19.8	18.1	16.1	14	11.7	9.3	6.8	4.4	2.1	-
		Water press. drop (heat.)	kPa	17.3	16.1	14.7	13.1	11.4	9.5	7.5	5.5	3.5	1.7	-

*With these calculating conditions there is the risk of condensing water spray. It is recommended to vary the water temperature or the relative humidity value.

Heating Capacities

Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 70/60 °C
Heating capacities for units with 2 and 3 row coils are the same as 2 and 4 pipe systems. The heating capacities of the 4 row coil unit refers to a 2 pipe system only

				External Static Pressure (kPa)											
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
320	max	Heating capacity	W	22880	22304	21578	20696	19618	18373	16878	15110	13017	10518	7509
		Water flow	l/h	2000	1950	1886	1809	1715	1606	1475	1321	1138	919	656
		Water press. Drop	kPa	74.9	71.6	67.6	62.8	57.1	50.9	43.8	36.1	27.8	19.1	10.5
	med	Heating capacity	W	18877	18460	17869	17123	16175	15017	13631	11960	9947	7559	4425
		Water flow	l/h	1650	1614	1562	1497	1414	1313	1192	1046	870	661	387
		Water press. Drop	kPa	53.4	51.3	48.5	45	40.7	35.7	30.1	23.9	17.3	10.7	4.2
	min	Heating capacity	W	15345	14743	14037	13210	12243	11133	9849	8358	6666	4555	-
		Water flow	l/h	1341	1289	1227	1155	1070	973	861	731	583	398	-
		Water press. Drop	kPa	37.1	34.6	31.7	28.5	24.9	21.1	17	12.7	8.5	4.4	-
330	max	Heating capacity	W	27386	26643	25708	24574	23216	21601	19721	17508	14910	11856	8194
		Water flow	l/h	2394	2329	2247	2148	2029	1888	1724	1530	1303	1036	716
		Water press. Drop	kPa	50.3	48	45	41.6	37.6	33.2	28.2	22.9	17.3	11.5	6
	med	Heating capacity	W	22255	21710	20967	20029	18839	17392	15668	13611	11167	8253	4717
		Water flow	l/h	1945	1898	1833	1751	1647	1520	1370	1190	976	721	412
		Water press. Drop	kPa	34.9	33.5	31.5	29	26.1	22.6	18.8	14.7	10.4	6.1	2.3
	min	Heating capacity	W	17801	17050	16172	15148	13958	12602	11049	9270	7264	4863	-
		Water flow	l/h	1556	1490	1414	1324	1220	1102	966	810	635	425	-
		Water press. Drop	kPa	23.6	21.9	19.9	17.8	15.4	12.8	10.2	7.5	4.9	2.4	-
340	max	Heating capacity	W	34745	33681	32349	30733	28814	26568	23962	20959	17524	13584	9051
		Water flow	l/h	3037	2944	2828	2687	2519	2322	2095	1832	1532	1187	791
		Water press. Drop	kPa	44.7	42.3	39.4	36	32.1	27.9	23.2	18.4	13.4	8.6	4.2
	med	Heating capacity	W	27469	26720	25688	24381	22760	20805	18512	15822	12710	9121	4999
		Water flow	l/h	2401	2336	2246	2131	1990	1819	1618	1383	1111	797	437
		Water press. Drop	kPa	29.5	28.1	26.3	23.9	21.2	18.1	14.7	11.2	7.6	4.2	1.5
	min	Heating capacity	W	21361	20352	19184	17834	16282	14526	12563	10354	7896	5161	-
		Water flow	l/h	1867	1779	1677	1559	1423	1270	1098	905	690	451	-
		Water press. Drop	kPa	19	17.4	15.7	13.8	11.8	9.6	7.5	5.3	3.3	1.6	-

6.8 Capacities - YEFB Models 420, 430, 440

Cooling and Heating Capacities
Cooling: Room temperature: 27 °C D.B. - 48% R.H. - Water temperature: 7/12 °C
Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 50 °C

				External Static Pressure (kPa)										
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
420	max	Total cooling capacity	W	14276*	14084*	13803*	13423*	12937*	12322	11556	10605	9408	7879	5862
		Sensible cooling capacity	W	11883*	11683*	11395*	11019*	10527*	9933	9209	8325	7255	5944	4291
		Heating capacity	W	19905	19586	19113	18499	17712	16724	15515	14046	12255	10043	7293
		Water flow	l/h	2454	2421	2373	2308	2224	2118	1987	1823	1617	1355	1008
		Water press. drop (cool.)	kPa	28.1	27.4	26.5	25.2	23.5	21.6	19.2	16.5	13.3	9.6	5.7
		Water press. drop (heat.)	kPa	23.6	23.1	22.2	21.1	19.8	18.1	16.1	13.8	11.1	8.1	4.8
	med	Total cooling capacity	W	13134*	12938	12661	12290	11817	11226	10494	9591	8468	7051	5202
		Sensible cooling capacity	W	10727*	10534	10262	9900	9452	8896	8223	7417	6441	5256	3770
		Heating capacity	W	18032	17714	17268	16673	15924	15000	13877	12526	10886	8872	6375
		Water flow	l/h	2258	2224	2177	2113	2032	1930	1804	1649	1456	1212	894
		Water press. drop (cool.)	kPa	24.2	23.5	22.6	21.5	20.0	18.2	16.2	13.7	11	7.9	4.6
		Water press. drop (heat.)	kPa	20.3	19.8	19.0	18.0	16.8	15.3	13.6	11.5	9.2	6.6	3.8
	min	Total cooling capacity	W	11662	11526	11300	10978	10554	10006	9323	8468	7397	6039	-
		Sensible cooling capacity	W	9303	9178	8963	8664	8281	7787	7182	6441	5539	4433	-
		Heating capacity	W	15680	15468	15115	14617	13969	13143	12131	10886	9359	7541	-
		Water flow	l/h	2005	1982	1943	1887	1814	1720	1603	1456	1272	1038	-
		Water press. drop (cool.)	kPa	19.5	19.1	18.5	17.5	16.3	14.8	13.1	11	8.6	6	-
		Water press. drop (heat.)	kPa	16.4	16.1	15.5	14.7	13.7	12.4	11	9.2	7.2	5	-
430	max	Total cooling capacity	W	18519*	18253*	17862*	17334	16659	15804	14749	13441	11810	9747	7069
		Sensible cooling capacity	W	15056*	14789*	14406*	13882	13226	12418	11440	10271	8860	7144	5029
		Heating capacity	W	25463	25024	24384	23525	22427	21089	19449	17454	15043	12108	8516
		Water flow	l/h	3184	3138	3071	2980	2864	2717	2536	2311	2030	1676	1215
		Water press. drop (cool.)	kPa	25.3	24.7	23.7	22.5	20.9	19	16.8	14.2	11.3	8	4.5
		Water press. drop (heat.)	kPa	21.3	20.7	19.9	18.9	17.6	16	14.1	11.9	9.5	6.7	3.8
	med	Total cooling capacity	W	16934	16662	16276	15760	15109	14292	13287	12058	10537	8640	6211
		Sensible cooling capacity	W	13497	13228	12868	12375	11774	11032	10134	9066	7791	6254	4375
		Heating capacity	W	22882	22430	21827	21019	20005	18746	17223	15404	13220	10579	7368
		Water flow	l/h	2911	2864	2798	2709	2597	2457	2284	2073	1812	1485	1068
		Water press. drop (cool.)	kPa	21.5	20.9	20.1	18.9	17.6	15.9	13.9	11.7	9.2	6.4	3.5
		Water press. drop (heat.)	kPa	18.1	17.6	16.9	15.9	14.7	13.3	11.7	9.8	7.7	5.4	3
	min	Total cooling capacity	W	14893	14707	14395	13952	13371	12621	11690	10537	9101	7303	-
		Sensible cooling capacity	W	11571	11405	11123	10724	10209	9552	8757	7791	6623	5210	-
		Heating capacity	W	19670	19383	18904	18227	17349	16232	14870	13220	11212	8834	-
		Water flow	l/h	2560	2528	2475	2399	2299	2170	2010	1812	1565	1256	-
		Water press. drop (cool.)	kPa	17.1	16.7	16.1	15.2	14.1	12.7	11.1	9.2	7	4.7	-
		Water press. drop (heat.)	kPa	14.4	14.0	13.5	12.8	11.8	10.7	9.3	7.7	5.9	4	-
440	max	Total cooling capacity	W	24301	23899	23312	22520	21516	20259	18719	16838	14540	11715	8193
		Sensible cooling capacity	W	18623	18263	17728	17033	16154	15063	13771	12227	10398	8217	5617
		Heating capacity	W	31888	31265	30359	29150	27629	25764	23510	20820	17630	13846	9366
		Water flow	l/h	4178	4109	4008	3872	3699	3483	3218	2895	2500	2014	1409
		Water press. drop (cool.)	kPa	23.6	22.9	21.9	20.6	19.0	17	14.8	12.2	9.4	6.4	3.3
		Water press. drop (heat.)	kPa	19.8	19.3	18.4	17.3	15.9	14.3	12.4	10.2	7.9	5.3	2.8
	med	Total cooling capacity	W	21924	21520	20951	20192	19239	18060	16621	14887	12784	10239	7103
		Sensible cooling capacity	W	16508	16156	15659	15007	14202	13222	12049	10669	9036	7113	4833
		Heating capacity	W	28237	27635	26788	25665	24267	22559	20513	18105	15262	11927	8005
		Water flow	l/h	3769	3700	3602	3471	3308	3105	2857	2559	2198	1760	1221
		Water press. drop (cool.)	kPa	19.6	19.0	18.1	16.9	15.5	13.8	11.9	9.8	7.4	5	2.6
		Water press. drop (heat.)	kPa	16.5	15.9	15.2	14.2	13.0	11.6	10	8.2	6.2	4.2	2.2
	min	Total cooling capacity	W	18928	18657	18205	17569	16737	15679	14376	12784	10850	8493	-
		Sensible cooling capacity	W	13941	13719	13349	12820	12143	11296	10269	9036	7567	5833	-
		Heating capacity	W	23813	23419	22769	21856	20676	19197	17405	15262	12717	9745	-
		Water flow	l/h	3254	3207	3130	3020	2877	2695	2471	2198	1865	1460	-
		Water press. drop (cool.)	kPa	15.1	14.7	14.0	13.2	12.1	10.7	9.2	7.4	5.5	3.6	-
		Water press. drop (heat.)	kPa	12.6	12.3	11.8	11.1	10.1	9	7.7	6.2	4.6	3	-

*With these calculating conditions there is the risk of condensing water spray. It is recommended to vary the water temperature or the relative humidity value.

Heating Capacities

Heating: Room temperature: 20 °C - 50% R.H. - Water temperature: 70/60 °C
Heating capacities for units with 2 and 3 row coils are the same as 2 and 4 pipe systems. The heating capacities of the 4 row coil unit refers to a 2 pipe system only

				External Static Pressure (kPa)										
YEFB	SPEED			0	25	50	75	100	125	150	175	200	225	250
420	max	Heating capacity	W	33651	33064	32266	31179	29792	28063	25964	23425	20360	16594	11960
		Water flow	l/h	2942	2890	2821	2726	2604	2453	2270	2048	1780	1451	1045
		Water press. Drop	kPa	30.7	29.7	28.5	26.8	24.7	22.1	19.3	16	12.4	8.6	4.8
	med	Heating capacity	W	30355	29798	29017	27970	26672	25067	23130	20819	18020	14612	10431
		Water flow	l/h	2654	2605	2537	2445	2332	2191	2022	1820	1575	1277	912
		Water press. Drop	kPa	25.5	24.7	23.5	22	20.2	18.1	15.6	12.9	10	6.8	3.7
	min	Heating capacity	W	26244	25878	25267	24405	23288	21871	20138	18020	15432	12385	-
		Water flow	l/h	2294	2262	2209	2133	2036	1912	1760	1575	1349	1083	-
		Water press. Drop	kPa	19.6	19.1	18.3	17.2	15.8	14.1	12.2	10	7.5	5.1	-
430	max	Heating capacity	W	43033	42258	41134	39626	37703	35375	32530	29091	24972	19995	13966
		Water flow	l/h	3762	3694	3596	3464	3296	3092	2844	2543	2183	1748	1221
		Water press. Drop	kPa	26.9	26.1	24.8	23.2	21.2	18.9	16.3	13.3	10.1	6.8	3.6
	med	Heating capacity	W	38495	37711	36662	35250	33491	31314	28692	25586	21868	17418	12058
		Water flow	l/h	3365	3297	3205	3081	2928	2737	2508	2237	1912	1523	1054
		Water press. Drop	kPa	22	21.2	20.2	18.8	17.2	15.2	13	10.6	8	5.3	2.7
	min	Heating capacity	W	32910	32413	31584	30416	28905	26997	24676	21868	18481	14500	-
		Water flow	l/h	2877	2833	2761	2659	2527	2360	2157	1912	1616	1268	-
		Water press. Drop	kPa	16.6	16.2	15.4	14.4	13.2	11.6	9.9	8	5.9	3.8	-
440	max	Heating capacity	W	54386	53292	51704	49588	46927	43690	39787	35147	29678	23233	15662
		Water flow	l/h	4754	4659	4520	4335	4102	3819	3478	3072	2594	2031	1369
		Water press. Drop	kPa	23.5	22.7	21.5	19.9	18	15.8	13.4	10.7	7.9	5.1	2.5
	med	Heating capacity	W	47984	46937	45467	43518	41096	38143	34620	30491	25638	19982	13373
		Water flow	l/h	4195	4103	3975	3804	3592	3334	3026	2665	2241	1747	1169
		Water press. Drop	kPa	18.8	18	17	15.7	14.2	12.4	10.4	8.3	6.1	3.9	1.9
	min	Heating capacity	W	40310	39631	38506	36933	34901	32360	29294	25638	21318	16301	-
		Water flow	l/h	3524	3464	3366	3229	3051	2829	2561	2241	1864	1425	-
		Water press. Drop	kPa	13.7	13.3	12.6	11.7	10.6	9.2	7.7	6.1	4.4	2.7	-

6.9 Electrical Data

The electrical data refers to standard fan coils with a clean filter and without external static pressure. A dirty filter or an external air pressure drop will decrease the absorbed power. The installation of electric accessories will increase the absorbed power.

	Absorbed current A			Power input W			Power supply V-ph-Hz
YEFB	max	med	min	max	med	min	
100	0.81	0.61	0.39	186	140	84	230-1-50
200	1.95	1.51	1.29	419	351	299	230-1-50
300	2.59	1.95	1.43	569	406	283	230-1-50
400	4.45	3.67	3.20	984	800	671	230-1-50

6.10 Sound Levels

Lw = Sound power level. The sound levels are obtained by considering an air supply plenum with collars and in accordance with the Eurovent specification "High static ducted fan coil - Acoustical measurements in reverberation room (2004)".
Lp = Sound pressure level in open space, at 1 meter distance from the unit and with 50 Pa external static pressure.
dB = Sound level, not weighted
dB(A) = Sound level, weighted

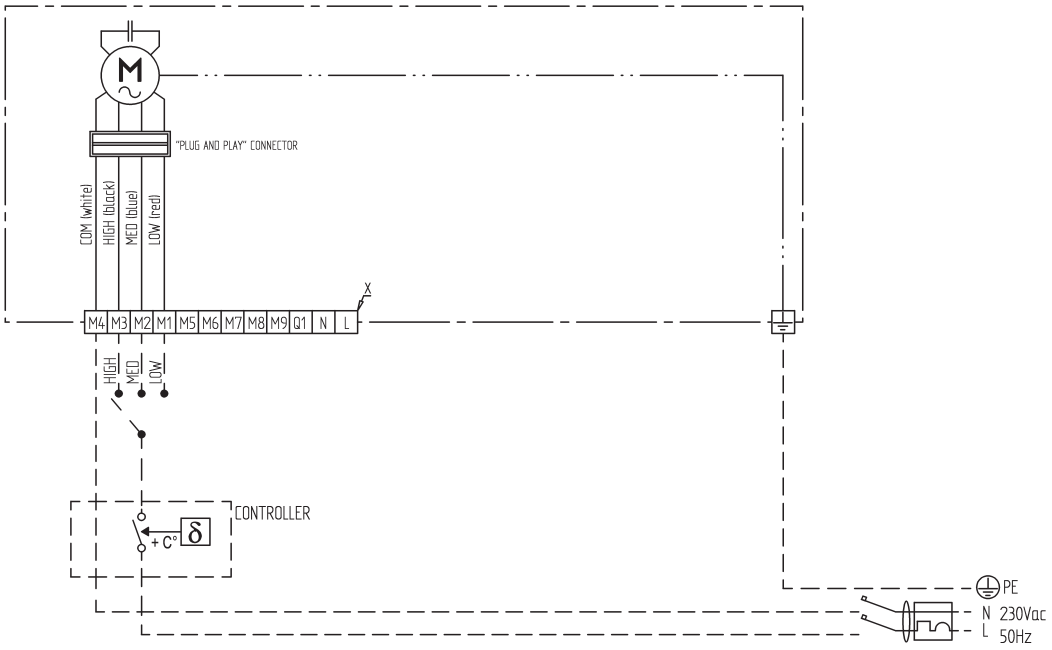
SOUND POWER (Lw) and SOUND PRESSURE (Lp) LEVELS with 50 Pa EXTERNAL STATIC PRESSURE

			Frequency (Hz) - Lw (dB)																					Lw		Lp
YEFB	SPEED		100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	10000	dB	dB(A)	dB(A)
100	max	Outlet	57.1	49.2	49.6	52.0	52.3	49.9	49.1	45.9	39.1	37.9	43.3	39.6	38.1	34.6	32.8	32.9	33.8	33.9	30.7	27.9	29.0	**61.0**	**52.0**	48.0
		Inlet + Structure	60.8	56.8	59.1	59.9	57.0	56.5	56.8	52.7	49.6	50.1	46.5	45.4	44.0	43.2	39.7	35.9	36.8	37.2	36.3	34.1	30.8	**67.0**	**59.0**	55.0
	med	Outlet	57.3	48.8	49.2	51.1	51.7	49.1	48.2	45.1	38.3	36.8	42.4	38.8	37.3	33.8	31.8	31.9	32.9	33.0	29.4	26.7	27.7	**60.0**	**51.0**	47.0
		Inlet + Structure	60.4	56.6	58.5	59.3	56.2	55.7	55.7	51.8	48.7	48.5	45.6	44.7	42.8	42.3	38.7	34.7	35.8	36.2	35.0	32.8	29.6	**66.0**	**58.0**	54.0
	min	Outlet	53.8	44.5	44.8	48.6	47.7	45.2	43.9	40.9	34.2	31.9	38.1	34.7	33.1	29.0	26.7	26.9	27.9	26.9	22.7	20.6	n.a.	**57.0**	**47.0**	43.0
		Inlet + Structure	56.6	52.6	54.1	57.4	51.8	51.4	51.4	48.4	45.0	43.9	41.2	40.5	38.3	37.6	33.5	29.4	30.4	29.9	28.0	26.0	22.8	**63.0**	**54.0**	50.0
200	max	Outlet	62.6	53.4	54.9	57.7	58.6	57.4	55.4	50.9	46.2	49.0	49.7	46.0	44.8	41.5	39.4	40.0	40.5	39.7	37.4	36.0	35.9	**67.0**	**59.0**	55.0
		Inlet + Structure	68.3	61.4	63.5	64.0	61.4	61.9	61.5	58.6	57.5	58.2	55.5	53.2	51.5	49.1	46.0	43.0	44.2	44.1	43.4	42.5	39.2	**73.0**	**65.0**	61.0
	med	Outlet	58.5	50.4	52.0	53.7	55.8	54.8	52.9	48.0	43.4	46.2	45.9	42.5	41.4	37.8	35.7	36.2	36.3	35.3	32.6	30.9	30.5	**63.0**	**56.0**	52.0
		Inlet + Structure	63.4	58.2	60.6	59.8	58.2	59.4	59.0	56.2	54.7	56.1	51.9	49.6	48.0	45.4	42.2	39.1	40.0	39.5	38.6	37.4	33.7	**69.0**	**62.0**	58.0
	min	Outlet	56.4	49.0	49.3	50.7	52.8	51.6	50.0	45.2	41.6	39.9	41.8	38.7	37.3	33.7	31.1	31.4	31.2	29.9	26.8	24.7	24.1	**61.0**	**52.0**	48.0
		Inlet + Structure	60.8	55.3	57.2	56.8	54.9	56.3	56.0	53.3	52.9	49.8	48.0	45.5	43.8	41.2	37.9	34.4	34.8	34.2	33.0	31.2	27.3	**66.0**	**59.0**	55.0
300	max	Outlet	62.0	60.1	60.6	62.2	61.6	56.2	54.1	47.8	46.1	46.9	49.9	47.8	47.9	47.0	45.0	43.9	44.1	44.1	41.5	38.7	39.2	**69.0**	**60.0**	56.0
		Inlet + Structure	68.9	66.2	69.6	67.6	65.2	64.2	62.1	60.3	58.6	58.4	59.3	59.2	57.8	55.6	52.9	51.7	51.5	50.9	49.5	48.2	45.4	**76.0**	**69.0**	65.0
	med	Outlet	59.5	55.4	55.6	57.3	56.6	51.3	48.8	43.0	41.8	42.3	45.2	43.0	43.4	42.3	39.8	38.0	38.4	37.6	34.4	31.0	31.5	**64.0**	**55.0**	51.0
		Inlet + Structure	67.4	61.3	64.4	62.9	60.0	59.3	57.4	56.2	54.7	54.5	55.5	55.2	53.5	50.8	47.6	46.3	45.5	44.4	42.3	40.6	37.5	**72.0**	**64.0**	60.0
	min	Outlet	57.8	49.4	48.5	51.6	50.2	45.2	42.9	37.4	36.0	36.1	39.6	37.1	37.4	35.0	31.8	30.0	29.3	27.8	23.9	20.3	n.a.	**60.0**	**49.0**	45.0
		Inlet + Structure	64.2	54.9	57.5	58.0	53.8	54.1	52.6	51.3	49.3	49.8	50.6	49.5	46.8	43.3	39.9	38.0	36.3	34.3	31.6	29.5	25.9	**67.0**	**59.0**	55.0
400	max	Outlet	63.9	64.8	62.9	66.1	62.1	60.4	54.9	50.0	51.2	52.0	53.6	52.0	50.8	49.7	48.1	47.7	48.9	49.1	46.1	44.0	44.7	**72.0**	**63.0**	59.0
		Inlet + Structure	72.4	73.2	74.9	72.9	71.1	71.8	72.5	69.2	68.1	65.5	65.0	63.8	62.9	62.6	60.5	59.2	59.0	58.4	57.0	55.9	53.2	**82.0**	**76.0**	72.0
	med	Outlet	62.9	61.7	60.9	64.6	60.9	57.8	52.2	47.3	48.9	50.0	50.5	49.6	48.4	47.2	45.5	45.0	46.1	46.1	43.0	40.6	41.2	**70.0**	**61.0**	57.0
		Inlet + Structure	70.7	70.3	73.5	70.8	69.5	69.1	69.6	66.5	65.6	63.2	62.8	61.7	60.9	60.3	58.0	56.4	56.1	55.4	53.7	52.3	49.7	**80.0**	**73.0**	69.0
	min	Outlet	63.7	60.7	60.3	66.9	58.6	53.6	48.3	43.8	46.0	48.1	47.6	51.9	48.6	44.4	42.6	41.8	42.4	42.1	38.3	36.0	36.3	**70.0**	**60.0**	56.0
		Inlet + Structure	69.4	70.1	71.7	72.3	67.2	65.3	66.4	63.2	62.8	61.0	61.5	63.9	60.7	57.9	55.4	53.2	52.5	51.6	49.2	47.5	44.7	**78.0**	**72.0**	68.0

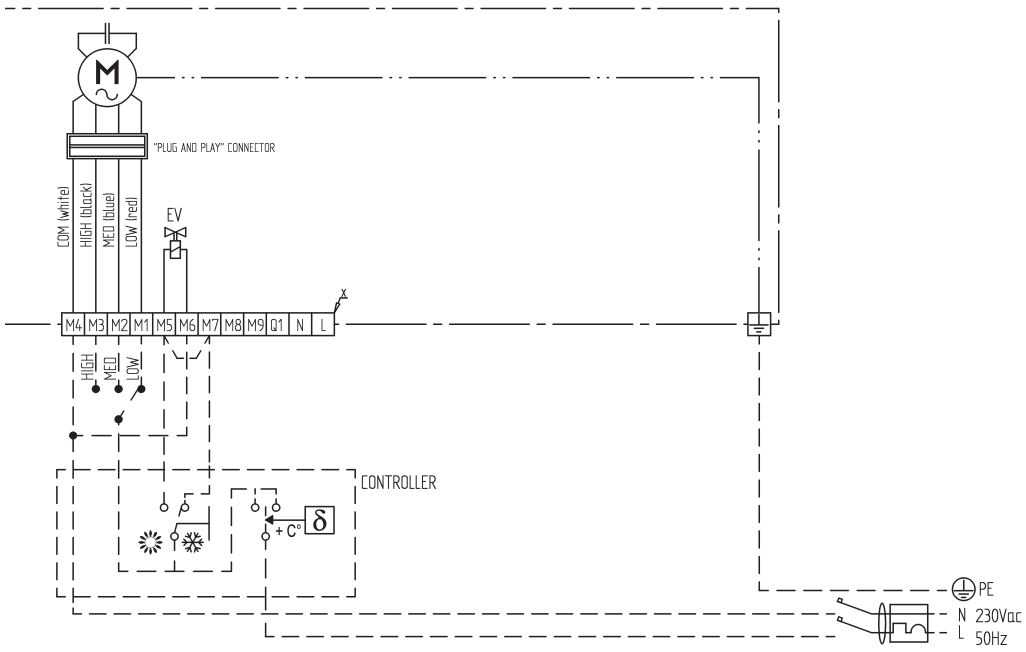
6.11 Connection Diagrams

Legend:
M: Fan motor
PE Earth
N Neutral
L Phase
x CBL00 terminal board
EV Regulating valve: EVC for cooling; EVH for heating
PC Condensate pump

CBL00



CBL00+EV



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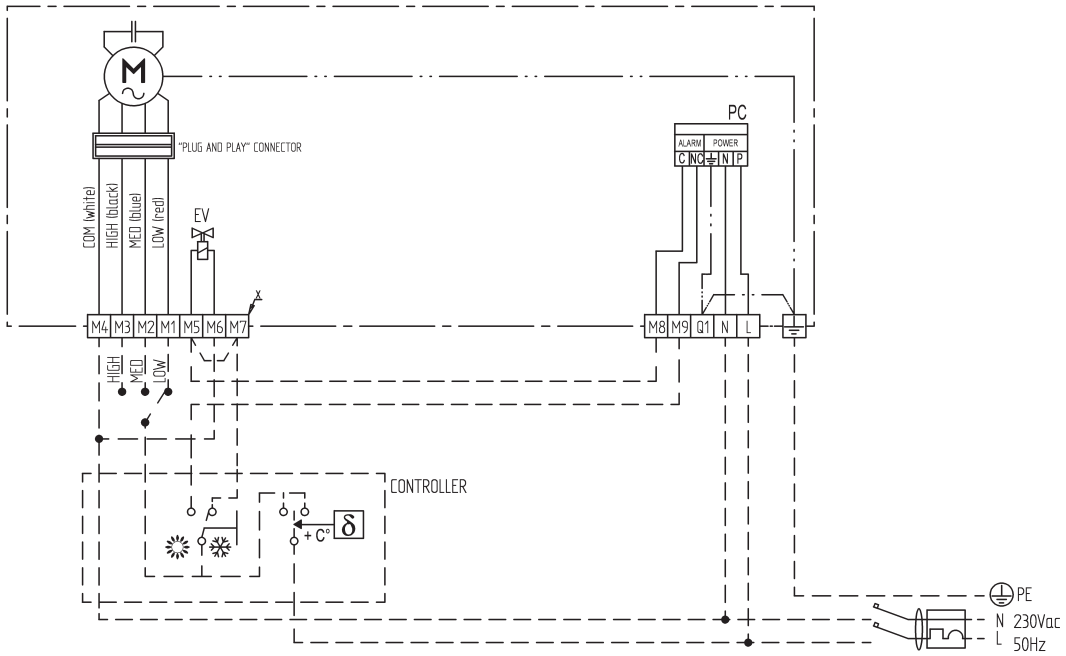

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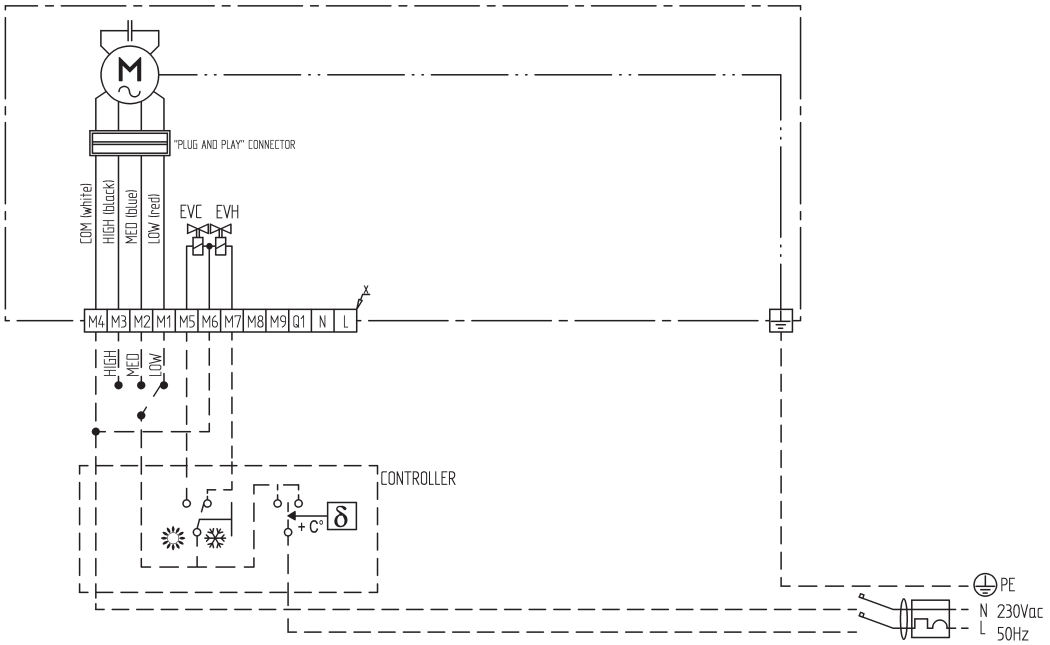

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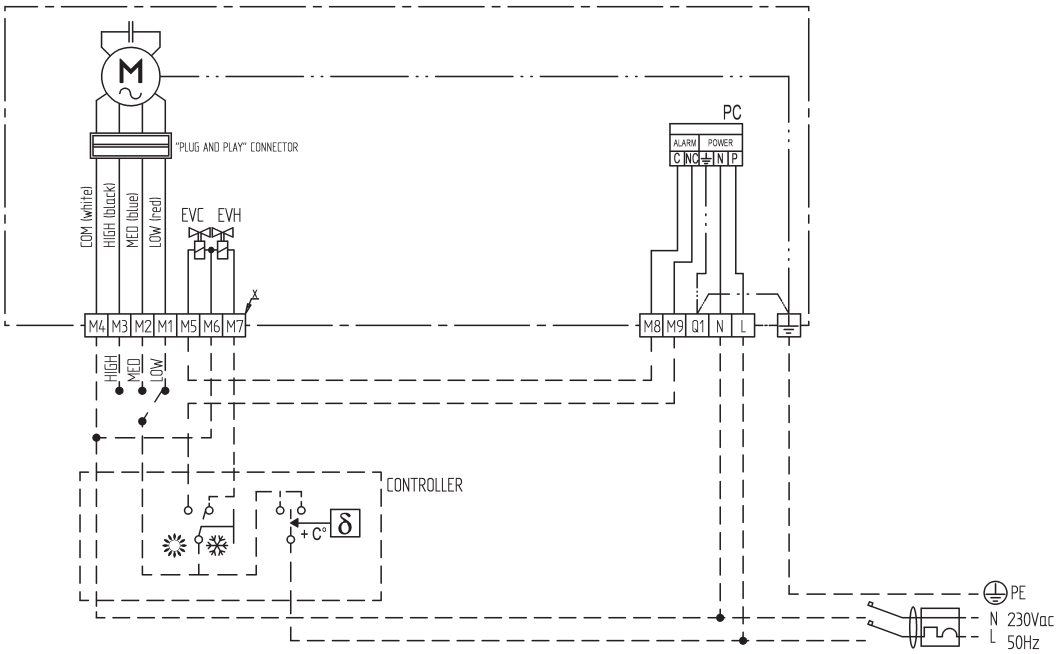

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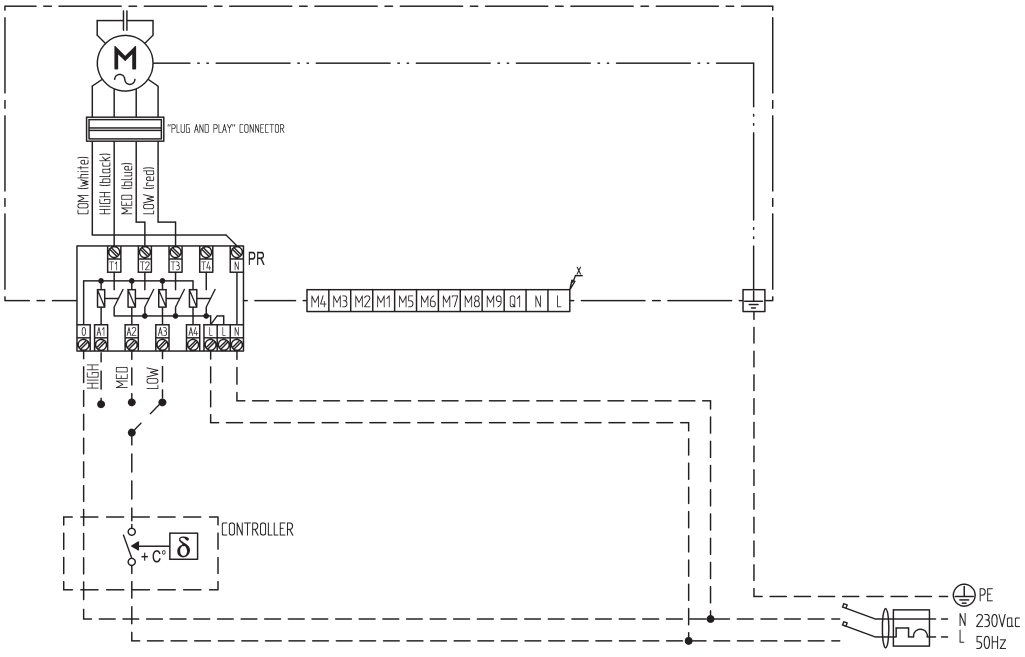

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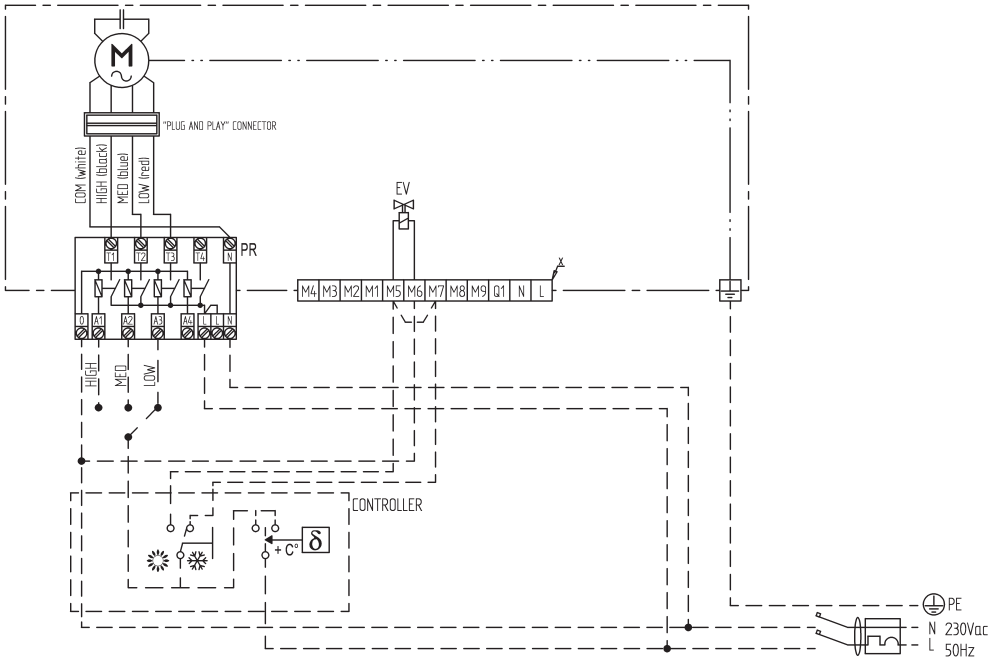

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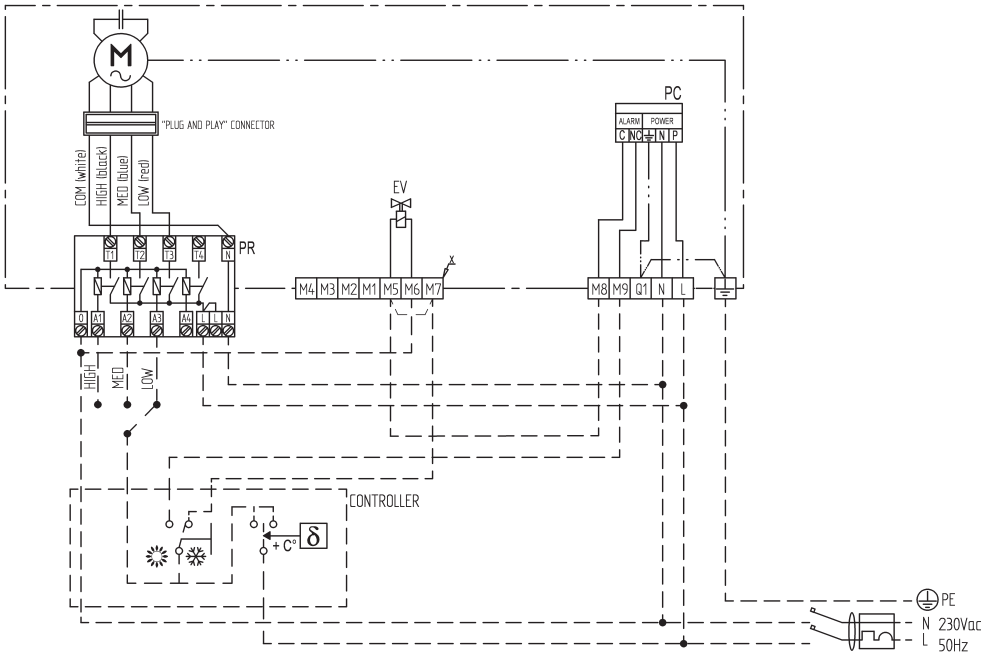

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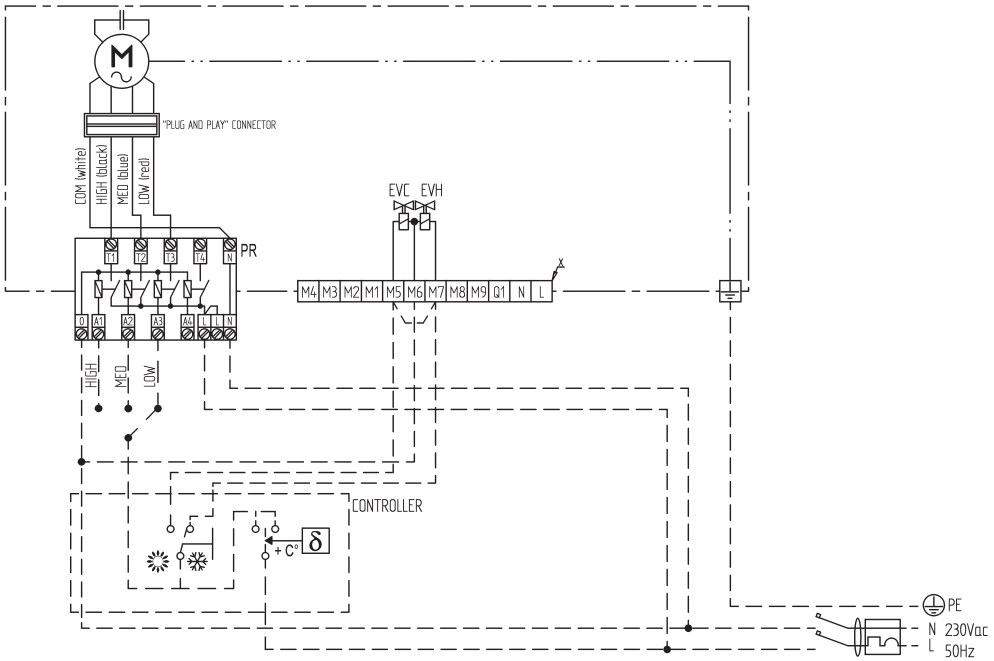

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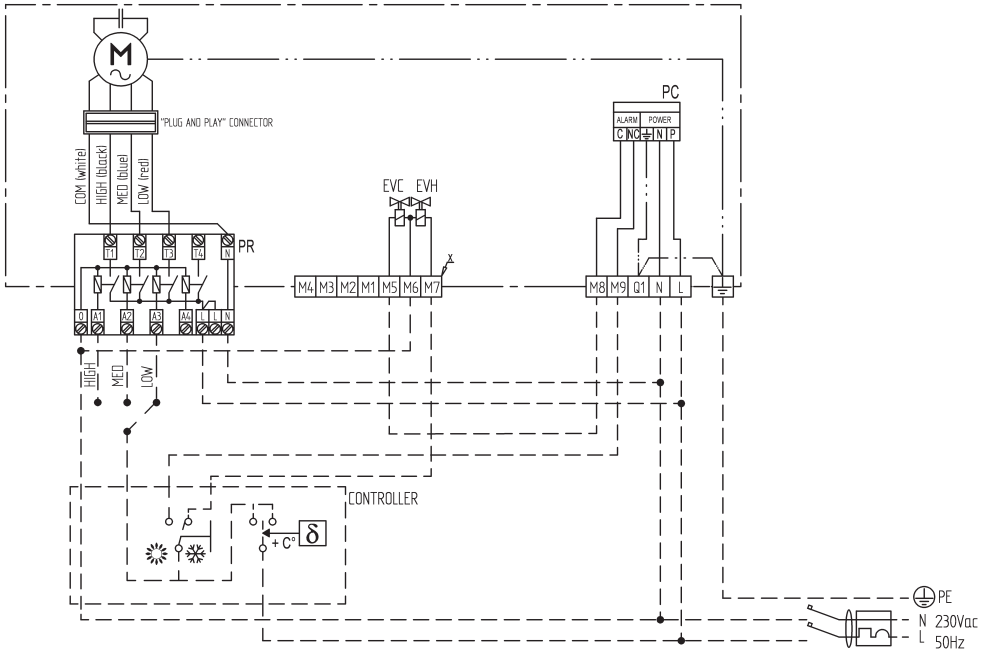

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