YFSE SUPER QUIET EUROVENT FAN COIL UNITS

COOLING CAPACITIES 1.06 to 3.18 kW

HEATING CAPACITIES 1.32 to 3.67 kW

The YFSE range of very low noise tangential fan coil units can be applied to two and four pipe systems to satisfy the requirements of air conditioning and heating applications in residential and small commercial buildings.

All models have a very narrow profile of 188 mm and can be floor, wall or ceiling mounted with cabinet.

Units can be supplied with a variety of control and valve pack options.

FEATURES	BENEFITS
Choice of 12 models for 2 and 4 pipe systems.	Perfectly match load requirements and provide required dehumidification.
Super low noise levels.	Satisfied building occupants.
Very narrow profile.	Fits minimum space and is unobtrusive.
Cabinet design stylish and modern.	Aesthetically pleasing.
Components selected for reliability.	Long life and dependable operation.
Manufactured to ISO 9001 EN 29001.	High standard of quality control.
Eurovent certified.	True and reliable thermal capacity and sound power data.

CONTENTS

EUROVENT CERTIFIED PERFORMANCE

SPECIFICATION

Base Unit
Made of 1.0 mm thick galvanised steel panels. Cold panels are insulated with 3 mm thick, closed cell, polyurethane foam. With 4 fixing holes to the rear for wall or ceiling mounting of the unit.

Fan Section
Composed of a cross-flow tangential fan and special air discharge section that ensures a uniform distribution of the airflow across the whole width of the unit. The three speed electric motor is mounted on flexible rubber supports to ensure a minimum vibration level.

Air Filter
The washable filter is made from class G1 polypropylene mesh.

2 Pipe Coil
Models are available with a single coil (2 pipe connection - 2 rows). All coils have copper tube of 3/11" diameter and lanced aluminium fin construction for maximum efficiency of heat exchange in the minimum space. Coils are factory leaked tested at 2,8 MPa, and suitable for working conditions of 1,4 MPa and 95 °C.

Drain Pans
Double drain pans suitable for both vertical and horizontal mounting units. Pans are constructed with 10 mm thick polystyrol semi-expanded plastic for easy cleaning. The condensate water passes via a field connected drain tube to the building's drain system. Both right and left drain connections are available as standard.

Water Connections
The water connections, on the left side (facing the airflow), have a ½" female gas coupling. The coil can be supplied with water connections on the right side.

Air Vent Valve
Coil assemblies are provided with manual air vents, internal to the coil connection, suitable for venting on vertical and horizontal models.

Packing
The base unit is shipped in carton box with plastic film protection. An installation template is included in the base unit carton, for positioning and easy wall or ceiling mounting.

ACCESSORIES

Base Cabinet
The cabinet design combines a modern line with a functional system of installation. The cabinet is shipped in a separate carton, which eliminates the need to disassemble the unit before installation and allows the cabinet to be fitted after the building works have been completed to minimise the risk of damage and to protect the cabinet surface against accidental impact.

The special design high impact, high temperature UV resistant ABS plastic cabinet air grille ensures laminar airflow discharge without turbulence or noise. The unit controller is mounted behind a blind hinged section of grille in a strong ABS support housing.

The detachable ABS plastic cabinet sides allow full accessibility to the unit components such as valves and piping connections.

The cabinet front panel is manufactured from 1 mm thick galvanised steel and painted white with a durable baked polyester powder coating (RAL 9001). The front panel is protected with a plastic film to avoid the risk of damage during the cabinet handling.

Horizontal Cabinet Kit
A complete aesthetic cabinet solution is available for ceiling installations when the distance between the bottom of the unit and the wall is more than 100 mm. The horizontal cabinet kit is a combination of Base Cabinet, Feet and Feet Closure Panel and Front Air Grille.

Feet
Unit feet are manufactured from high impact, high temperature, UV resistant ABS plastic. They can be used to enclose supply piping from below, together with condensate drain line and electric cables. Shipped separately or as part of the Horizontal Cabinet Kit.

Front Air Grille
A fixed sheet metal grille to close the base of the unit, with a sub-frame, for horizontal or vertical installation. The feet are required for this option. Shipped separately or as part of the Horizontal Cabinet Kit.

Back Panel
For floor installations where glass walls are used or where the unit is visible from the rear, an optional painted back panel makes the unit more aesthetically pleasing. Shipped separately.

Fresh Air Damper
For the introduction of fresh air to the space an air damper can be fitted where there is a vertical installation against an outside wall. Shipped separately.

Auxiliary Coil
The unit is available with an auxiliary coil for heating and cooling applications using a four-pipe system. Factory mounted.

Auxiliary Condensate Drain Pans
Additional drain pans to catch the condensate dripping from piping and control or stop valves. There are two versions, one for horizontal and one for vertical installations. Factory mounted or shipped separately.

Controls
Four types of controls are available as standard:

- YORK BASE CONTROL providing an ON-OFF switch and a three speed fan switch.
- YORK 2 PIPE ON-OFF CONTROL provided with:
  - ON-OFF switch,
  - Electronic ambient thermostat,
  - ON - OFF valve output,
  - 3 speed fan switch, plus auto-fan speed regulation,
  - Air temperature sensor in the control module for wall mounted control, or remote air temperature probe for control from the fan coil,
  - Automatic SUMMER-WINTER changeover with water temperature sensor,
  - LED for high-medium-low fan speed and autofan,
  - LED for thermostat demand,
  - Wiring harness with plug for an easy electrical connection with base unit.
- YORK 4 PIPE ON-OFF CONTROL with the same options of 2 PIPE ON-OFF CONTROL plus a second ON-OFF valve output or electric heater control.
- YORK 2-4 PIPE MODULATING CONTROL provided with an electronic ambient thermostat to control a modulating valve (0 to 10 Vdc signal (Johnson Controls) or PWM signal (Cazzaniga)). The controller is that of the valve manufacturer and is wall mounted. All the controls are available factory mounted or shipped separately, except the modulating controller, which is shipped separately for wall mounting.

4 Port Valve Kit
Electric four port control valves with internal by-pass are available from two manufacturers (Cazzaniga and Johnson Controls). Complete with either an electric two position ON-OFF actuator, or an electric modulating actuator (0 to 10 Vdc signal (Johnson Controls) or PWM signal (Cazzaniga) from an electronic thermostat).

The kit also includes shut-off valves and flexible stainless steel tubes to connect all components with the fan coil. They are available factory mounted or shipped separately.

Electric Heater
Armoured electrical resistance heater is offered complete with all necessary safety thermostats. Available in two capacities per unit size. Factory mounted.

Control Transformer 230/24 V
The control transformer is necessary with all 2-4 PIPE MODULATING CONTROL and VALVE kits. Factory mounted or shipped separately.

Auto Changeover Switch
To be fitted on the inlet pipe when 2 Pipe Modulating Control with an automatic changeover function is required.

Condensate Drain Pump Kit
To be installed in cases where the condensate drain line must be routed upwards. Full installation instructions are provided with the kit.

SELECTION GUIDE

The Eurovent Ratings (tables 1 and 2) detail the air flow, cooling and heating capacities, pressure drops and power input for each model at high, medium and low fan speeds at standard Eurovent conditions.

Refer to tables 3 to 10, for details of total and sensible cooling capacities at high fan speed for a range of dry (DB) and wet bulb (WB) entering air temperatures at various entering water temperatures and water temperature increases. The fan speed correction factors (tables 11 to 14) should be applied for medium and low fan speeds.

Refer to tables 15 (2 pipe models) and 17 (4 pipe models), for details of heating capacities at high fan speed for 20°C DB entering air temperatures at 50/70°C entering water temperatures and various water flow rates. The heating capacity correction factors (tables 16 or 18) should be applied for different entering air temperatures and entering water temperatures. The fan speed correction factors (tables 11 to 14) should be applied for medium and low fan speeds.

Water pressure drop, physical data, sound data and altitude correction factors are given in tables 19 to 24 and accessory data is given in tables 25 to 28.

EUROVENT RATINGS STANDARD MODELS (2 PIPE) — TABLE 1

YFSE Model	Air Flow m^3/h	Total Capacity Cooling W	Total Capacity Heating W	Pressure Drop Cooling kPa	Pressure Drop Heating kPa	Power Input W
HIGH FAN SPEED						
1	195	1,058	1,380	20.3	17.4	24
2	***246***	***1,224***	***1,686***	***33.3***	***28.6***	***30***
3	344	1,855	2,195	22.4	15.8	30
4	***370***	***2,093***	***2,814***	***25.3***	***21.7***	***32***
5	521	2,690	3,958	37.2	33.5	35
6	***675***	***3,180***	***4,287***	***25.7***	***23.1***	***50***
MEDIUM FAN SPEED						
1	165	625	1,185	12.1	10.9	22
2	***210***	***1,002***	***1,389***	***20.0***	***18.0***	***23***
3	271	1,178	1,500	11.3	7.4	24
4	***307***	***1,558***	***2,250***	***19.2***	***17.3***	***26***
5	344	2,080	2,906	25.9	23.3	22
6	***513***	***2,360***	***3,186***	***18.2***	***16.4***	***32***
LOW FAN SPEED						
1	112	503	936	9.6	8.6	21
2	***186***	***769***	***1,050***	***17.8***	***16.0***	***20***
3	224	802	1,131	4.7	4.3	19
4	***234***	***1,067***	***1,550***	***10.9***	***9.8***	***21***
5	304	1,984	2,773	25.2	22.7	19
6	***393***	***2,026***	***2,862***	***13.1***	***11.7***	***25***

Capacity, Pressure Drop and Power Input are Eurovent Certified.
Cooling Capacities Based On 27°C DB / 19°C Wb Entering Air Temperature, 7°C Entering Water Temperature and 5°K Water Temperature Increase
Heating Capacities based on 20°C Entering Air Temperature and 50°C Entering Water Temperature, at the same Water Flow Rate as Cooling Capacities

EUROVENT RATINGS MODELS WITH AUXILIARY COIL (4 PIPE) — TABLE 2

YFSE Model	Air Flow m^3/h	Total Capacity Cooling W	Total Capacity Heating W	Pressure Drop Cooling kPa	Pressure Drop Heating kPa	Power Input W
HIGH FAN SPEED						
1	185	1,008	1,318	17.6	17.1	24
2	***234***	***1,166***	***1,460***	***28.9***	***20.3***	***30***
3	327	1,767	1,833	15.8	11.6	30
4	***352***	***1,994***	***2,174***	***21.9***	***13.0***	***32***
5	495	2,636	2,944	35.7	21.5	35
6	***641***	***3,116***	***3,671***	***24.7***	***33.8***	***50***
MEDIUM FAN SPEED						
1	157	613	1,160	11.6	15.1	22
2	***200***	***982***	***1,264***	***19.2***	***17.3***	***23***
3	257	1,154	1,627	7.9	7.3	24
4	***292***	***1,527***	***1,918***	***18.5***	***9.2***	***26***
5	327	2,038	2,496	24.8	17.5	22
6	***487***	***2,313***	***2,800***	***17.5***	***27.8***	***32***
LOW FAN SPEED						
1	106	493	1,041	9.2	8.1	21
2	***177***	***754***	***1,200***	***17.1***	***15.3***	***20***
3	213	786	1,350	4.5	6.8	19
4	***222***	***1,046***	***1,550***	***10.5***	***7.3***	***21***
5	289	1,944	2,329	24.2	15.4	19
6	***373***	***1,985***	***2,753***	***12.5***	***24.2***	***25***

Capacity, Pressure Drop and Power Input are Eurovent Certified.
Cooling Capacities Based On 27°C DB / 19°C Wb Entering Air Temperature, 7°C Entering Water Temperature and 5°K Water Temperature Increase
Heating Capacities based on 20°C Entering Air Temperature and 70°C Entering Water Temperature, 10°K Water Temperature decrease

TABLE 3 COOLING CAPACITIES (20°C DB, 15°C WB AIR ENTERING TEMP. HIGH SPEED)

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	977	720	279	726	600	208	494	486	141	364	364	104	-	-	-
	4.0	***844***	***655***	***181***	***593***	***536***	***127***	***431***	***431***	***93***	***328***	***328***	***71***	***-***	***-***	***-***
	5.0	695	583	119	516	496	89	398	398	68	-	-	-	-	-	-
	6.0	***627***	***551***	***90***	***471***	***467***	***67***	***366***	***366***	***52***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	574	524	70	437	437	54	337	337	41	-	-	-	-	-	-
	8.0	***524***	***499***	***56***	***406***	***406***	***44***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
2	3.0	1063	808	304	783	676	224	539	539	154	404	404	116	-	-	-
	4.0	***911***	***736***	***195***	***633***	***599***	***136***	***467***	***467***	***100***	***355***	***355***	***76***	***-***	***-***	***-***
	5.0	740	653	127	545	542	94	429	429	74	-	-	-	-	-	-
	6.0	***654***	***608***	***94***	***505***	***505***	***72***	***394***	***394***	***57***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	600	577	74	469	469	58	361	361	44	-	-	-	-	-	-
	8.0	***550***	***544***	***59***	***436***	***436***	***47***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
3	3.0	1608	1219	459	1157	1007	331	800	800	229	573	573	164	-	-	-
	4.0	***1305***	***1074***	***280***	***865***	***850***	***186***	***659***	***659***	***142***	***497***	***497***	***107***	***-***	***-***	***-***
	5.0	972	908	167	762	762	131	600	600	103	-	-	-	-	-	-
	6.0	***886***	***858***	***127***	***703***	***703***	***101***	***547***	***547***	***78***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	813	809	100	650	650	80	495	495	61	-	-	-	-	-	-
	8.0	***755***	***755***	***81***	***600***	***600***	***64***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
4	3.0	1871	1392	535	1382	1159	395	946	939	271	694	694	199	-	-	-
	4.0	***1593***	***1256***	***342***	***1096***	***1020***	***235***	***777***	***777***	***167***	***576***	***576***	***124***	***-***	***-***	***-***
	5.0	1262	1098	217	880	880	151	696	696	120	-	-	-	-	-	-
	6.0	***1036***	***982***	***148***	***815***	***815***	***117***	***634***	***634***	***91***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	950	932	116	754	754	93	578	578	71	-	-	-	-	-	-
	8.0	***875***	***875***	***94***	***698***	***698***	***75***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
5	3.0	2386	1798	682	1750	1497	501	1195	1195	342	869	869	249	-	-	-
	4.0	***1998***	***1612***	***428***	***1351***	***1292***	***290***	***952***	***952***	***205***	***718***	***718***	***154***	***-***	***-***	***-***
	5.0	1472	1353	253	1101	1101	189	869	869	149	-	-	-	-	-	-
	6.0	***1281***	***1243***	***183***	***1018***	***1018***	***146***	***791***	***791***	***113***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	1175	1169	144	940	940	115	718	718	88	-	-	-	-	-	-
	8.0	***1089***	***1089***	***117***	***867***	***867***	***93***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
6	3.0	2906	2234	830	2071	1837	593	1419	1419	406	992	992	284	-	-	-
	4.0	***2241***	***1915***	***480***	***1471***	***1471***	***316***	***1171***	***1171***	***252***	***881***	***881***	***189***	***-***	***-***	***-***
	5.0	1699	1629	292	1354	1354	233	1067	1067	183	782	782	135	-	-	-
	6.0	***1556***	***1534***	***223***	***1250***	***1250***	***179***	***966***	***966***	***138***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	1432	1432	176	1152	1152	141	874	874	107	-	-	-	-	-	-
	8.0	***1334***	***1334***	***143***	***1057***	***1057***	***114***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***

TABLE 4 COOLING CAPACITIES (22°C DB, 15°C WB AIR ENTERING TEMP. HIGH SPEED)

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	977	835	279	752	723	215	604	604	173	486	486	139	366	366	105
	4.0	***855***	***774***	***183***	***661***	***661***	***142***	***541***	***541***	***116***	***429***	***429***	***92***	***-***	***-***	***-***
	5.0	739	711	127	601	601	103	497	497	86	397	397	68	-	-	-
	6.0	***674***	***669***	***96***	***568***	***568***	***81***	***465***	***465***	***67***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	636	636	78	535	535	66	435	435	53	-	-	-	-	-	-
	8.0	***604***	***604***	***65***	***504***	***504***	***54***	***404***	***404***	***43***	***-***	***-***	***-***	***-***	***-***	***-***
2	3.0	1058	942	302	821	811	235	675	675	193	542	542	155	407	407	117
	4.0	***925***	***870***	***198***	***735***	***735***	***158***	***602***	***602***	***129***	***466***	***466***	***100***	***-***	***-***	***-***
	5.0	797	790	137	654	654	112	539	539	93	429	429	74	-	-	-
	6.0	***726***	***726***	***104***	***614***	***614***	***88***	***502***	***502***	***72***	***-***	***-***	***-***	***-***	***-***	***-***
	7.0	688	688	84	578	578	71	468	468	57	-	-	-	-	-	-
	8.0	***652***	***652***	***70***	***543***	***543***	***58***	***436***	***436***	***47***	***-***	***-***	***-***	***-***	***-***	***-***
3	3.0	1608	1426	459	1243	1228	356	1016	1016	291	807	807	231	587	587	168
	4.0	***1367***	***1296***	***293***	***1085***	***1085***	***233***	***868***	***868***	***187***	***659***	***659***	***142***	***-***	***-***	***-***
	5.0	1126	1126	193	923	923	159	760	760	131	600	600	103	-	-	-
	6.0	***1027***	***1027***	***147***	***862***	***862***	***123***	***703***	***703***	***101***	***545***	***545***	***78***	***-***	***-***	***-***
	7.0	965	965	118	807	807	99	648	648	80	-	-	-	-	-	-
	8.0	***910***	***910***	***98***	***752***	***752***	***81***	***599***	***599***	***64***	***-***	***-***	***-***	***-***	***-***	***-***
4	3.0	1879	1624	537	1439	1401	412	1172	1172	336	939	939	269	702	702	201
	4.0	***1630***	***1496***	***350***	***1273***	***1273***	***273***	***1036***	***1036***	***223***	***792***	***792***	***170***	***-***	***-***	***-***
	5.0	1390	1359	238	1119	1119	192	878	878	151	694	694	119	-	-	-
	6.0	***1183***	***1183***	***169***	***999***	***999***	***143***	***815***	***815***	***117***	***634***	***634***	***91***	***-***	***-***	***-***
	7.0	1119	1119	137	935	935	115	754	754	93	-	-	-	-	-	-
	8.0	***1055***	***1055***	***113***	***873***	***873***	***94***	***696***	***696***	***75***	***-***	***-***	***-***	***-***	***-***	***-***
5	3.0	2391	2102	683	1846	1814	528	1508	1508	432	1202	1202	345	884	884	254
	4.0	***2058***	***1925***	***441***	***1624***	***1624***	***349***	***1311***	***1311***	***282***	***968***	***968***	***208***	***718***	***718***	***154***
	5.0	1720	1711	295	1376	1376	236	1099	1099	189	867	867	149	-	-	-
	6.0	***1483***	***1483***	***212***	***1248***	***1248***	***179***	***1016***	***1016***	***145***	***788***	***788***	***113***	***-***	***-***	***-***
	7.0	1397	1397	171	1164	1164	143	937	937	115	715	715	88	-	-	-
	8.0	***1316***	***1316***	***141***	***1089***	***1089***	***117***	***867***	***867***	***93***	***-***	***-***	***-***	***-***	***-***	***-***
6	3.0	2919	2621	834	2241	2241	641	1849	1849	530	1445	1445	414	989	989	284
	4.0	***2410***	***2336***	***517***	***1921***	***1921***	***412***	***1465***	***1465***	***315***	***1171***	***1171***	***252***	***881***	***881***	***190***
	5.0	1941	1941	333	1647	1647	283	1354	1354	233	1064	1064	183	-	-	-
	6.0	***1823***	***1823***	***261***	***1530***	***1530***	***219***	***1246***	***1246***	***179***	***966***	***966***	***139***	***-***	***-***	***-***
	7.0	1713	1713	210	1429	1429	175	1148	1148	141	874	874	107	-	-	-
	8.0	***1608***	***1608***	***173***	***1331***	***1331***	***143***	***1057***	***1057***	***114***	***789***	***789***	***85***	***-***	***-***	***-***

COOLING CAPACITIES (24°C DB, 16°C WB AIR ENTERING TEMP. HIGH SPEED) TABLE 5

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	1129	949	323	901	838	258	721	721	206	604	604	173	488	488	140
	4.0	***1011***	***890***	***217***	***794***	***779***	***170***	***663***	***663***	***142***	***545***	***545***	***117***	***428***	***428***	***92***
	5.0	893	830	153	716	716	123	599	599	103	497	497	85	395	395	68
	6.0	***785***	***769***	***112***	***669***	***669***	***96***	***566***	***566***	***81***	***464***	***464***	***67***	***364***	***364***	***52***
	7.0	741	738	91	634	634	78	534	534	66	434	434	53	-	-	-
	8.0	***705***	***705***	***76***	***602***	***602***	***65***	***503***	***503***	***54***	***404***	***404***	***43***	***-***	***-***	***-***
2	3.0	1234	1076	353	980	945	280	809	809	232	676	676	194	544	544	156
	4.0	***1096***	***1004***	***235***	***870***	***870***	***187***	***740***	***740***	***159***	***607***	***607***	***130***	***472***	***472***	***101***
	5.0	963	930	165	797	797	137	664	664	114	538	538	93	428	428	74
	6.0	***847***	***847***	***121***	***723***	***723***	***104***	***612***	***612***	***88***	***502***	***502***	***72***	***393***	***393***	***56***
	7.0	797	797	98	688	688	84	576	576	71	467	467	57	-	-	-
	8.0	***761***	***761***	***82***	***650***	***650***	***70***	***543***	***543***	***58***	***435***	***435***	***47***	***-***	***-***	***-***
3	3.0	1889	1635	540	1498	1437	428	1229	1229	352	1023	1023	293	813	813	233
	4.0	***1642***	***1508***	***352***	***1305***	***1305***	***280***	***1099***	***1099***	***236***	***886***	***886***	***190***	***655***	***655***	***141***
	5.0	1398	1368	240	1154	1154	198	934	934	160	758	758	130	599	599	103
	6.0	***1188***	***1188***	***170***	***1023***	***1023***	***146***	***862***	***862***	***123***	***702***	***702***	***101***	***545***	***545***	***78***
	7.0	1126	1126	138	965	965	118	807	807	99	648	648	80	-	-	-
	8.0	***1068***	***1068***	***115***	***910***	***910***	***98***	***752***	***752***	***81***	***597***	***597***	***64***	***-***	***-***	***-***
4	3.0	2179	1849	623	1728	1628	494	1405	1405	402	1175	1175	337	942	942	270
	4.0	***1939***	***1727***	***416***	***1533***	***1513***	***329***	***1281***	***1281***	***275***	***1048***	***1048***	***225***	***807***	***807***	***174***
	5.0	1698	1602	291	1375	1375	236	1138	1138	196	886	886	152	692	692	119
	6.0	***1457***	***1450***	***208***	***1209***	***1209***	***173***	***995***	***995***	***143***	***813***	***813***	***117***	***632***	***632***	***91***
	7.0	1300	1300	159	1115	1115	137	931	931	114	751	751	92	-	-	-
	8.0	***1236***	***1236***	***133***	***1051***	***1051***	***113***	***871***	***871***	***94***	***694***	***694***	***75***	***-***	***-***	***-***
5	3.0	2785	2400	796	2215	2114	634	1813	1813	519	1513	1513	434	1210	1210	347
	4.0	***2462***	***2233***	***528***	***1957***	***1948***	***420***	***1639***	***1639***	***352***	***1331***	***1331***	***286***	***1003***	***1003***	***216***
	5.0	2119	2044	363	1735	1735	298	1417	1417	244	1099	1099	189	867	867	149
	6.0	***1796***	***1796***	***257***	***1483***	***1483***	***212***	***1245***	***1245***	***178***	***1013***	***1013***	***145***	***788***	***788***	***113***
	7.0	1629	1629	200	1392	1392	171	1164	1164	143	937	937	115	-	-	-
	8.0	***1543***	***1543***	***166***	***1311***	***1311***	***141***	***1086***	***1086***	***117***	***864***	***864***	***93***	***-***	***-***	***-***
6	3.0	3427	3005	980	2723	2639	779	2247	2247	643	1862	1862	534	1465	1465	420
	4.0	***2945***	***2750***	***631***	***2358***	***2358***	***506***	***1967***	***1967***	***422***	***1530***	***1530***	***329***	***1168***	***1168***	***251***
	5.0	2423	2414	416	1954	1954	336	1641	1641	282	1347	1347	232	1060	1060	183
	6.0	***2117***	***2117***	***303***	***1823***	***1823***	***261***	***1530***	***1530***	***219***	***1243***	***1243***	***178***	***963***	***963***	***138***
	7.0	1999	1999	245	1713	1713	210	1426	1426	175	1145	1145	141	-	-	-
	8.0	***1895***	***1895***	***203***	***1608***	***1608***	***173***	***1328***	***1328***	***143***	***1054***	***1054***	***113***	***-***	***-***	***-***

COOLING CAPACITIES (25°C DB, 17°C WB AIR ENTERING TEMP. HIGH SPEED) TABLE 6

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	1294	1006	370	1051	892	301	815	782	233	663	663	190	547	547	157
	4.0	***1174***	***949***	***252***	***935***	***837***	***201***	***724***	***724***	***155***	***606***	***606***	***130***	***488***	***488***	***105***
	5.0	1045	887	179	813	775	140	661	661	114	547	547	94	445	445	77
	6.0	***912***	***823***	***130***	***722***	***718***	***103***	***615***	***615***	***88***	***515***	***515***	***74***	***414***	***414***	***59***
	7.0	823	778	101	686	686	84	583	583	72	483	483	59	383	383	47
	8.0	***771***	***750***	***83***	***653***	***653***	***70***	***553***	***553***	***59***	***453***	***453***	***49***	***-***	***-***	***-***
2	3.0	1414	1139	404	1143	1012	327	889	878	255	742	742	213	612	612	175
	4.0	***1272***	***1070***	***273***	***1006***	***941***	***216***	***806***	***806***	***173***	***676***	***676***	***145***	***543***	***543***	***117***
	5.0	1129	1001	194	882	868	152	735	735	126	600	600	103	482	482	83
	6.0	***977***	***922***	***140***	***787***	***787***	***113***	***669***	***669***	***96***	***557***	***557***	***80***	***448***	***448***	***64***
	7.0	863	852	106	742	742	91	631	631	77	521	521	64	413	413	51
	8.0	***816***	***816***	***88***	***704***	***704***	***76***	***595***	***595***	***64***	***488***	***488***	***53***	***-***	***-***	***-***
3	3.0	2171	1734	621	1745	1534	499	1360	1339	389	1130	1130	324	920	920	264
	4.0	***1917***	***1611***	***411***	***1504***	***1412***	***323***	***1209***	***1209***	***260***	***999***	***999***	***215***	***783***	***782***	***168***
	5.0	1642	1477	282	1281	1274	220	1058	1058	182	841	841	145	679	679	117
	6.0	***1339***	***1311***	***192***	***1106***	***1106***	***158***	***941***	***941***	***135***	***783***	***783***	***112***	***623***	***623***	***89***
	7.0	1209	1209	148	1044	1044	128	886	886	109	726	726	89	571	571	70
	8.0	***1147***	***1147***	***123***	***989***	***989***	***106***	***831***	***831***	***89***	***674***	***674***	***73***	***-***	***-***	***-***
4	3.0	2494	1958	713	2021	1736	578	1563	1518	447	1290	1290	370	1061	1061	304
	4.0	***2247***	***1838***	***482***	***1777***	***1617***	***381***	***1401***	***1401***	***301***	***1168***	***1168***	***251***	***935***	***935***	***201***
	5.0	1976	1709	339	1540	1493	264	1266	1266	218	1025	1025	176	784	784	135
	6.0	***1698***	***1572***	***243***	***1345***	***1345***	***192***	***1096***	***1096***	***157***	***905***	***905***	***130***	***721***	***721***	***103***
	7.0	1412	1403	173	1206	1206	148	1021	1021	125	841	841	103	664	664	82
	8.0	***1326***	***1326***	***142***	***1142***	***1142***	***123***	***961***	***961***	***103***	***783***	***783***	***84***	***-***	***-***	***-***
5	3.0	3199	2546	914	2583	2254	739	2008	1968	575	1667	1667	478	1366	1366	392
	4.0	***2856***	***2377***	***612***	***2260***	***2093***	***485***	***1796***	***1796***	***386***	***1493***	***1493***	***321***	***1180***	***1180***	***254***
	5.0	2492	2202	428	1937	1907	333	1594	1594	274	1270	1270	219	980	980	169
	6.0	***2078***	***1986***	***297***	***1659***	***1659***	***238***	***1361***	***1361***	***195***	***1129***	***1129***	***162***	***902***	***902***	***129***
	7.0	1745	1745	214	1513	1513	186	1281	1281	157	1048	1048	129	826	826	102
	8.0	***1659***	***1659***	***178***	***1427***	***1427***	***153***	***1200***	***1200***	***129***	***973***	***973***	***105***	***-***	***-***	***-***
6	3.0	3949	3190	1129	3167	2821	906	2475	2454	709	2065	2065	592	1673	1673	480
	4.0	***3453***	***2950***	***740***	***2697***	***2574***	***579***	***2182***	***2182***	***469***	***1771***	***1771***	***381***	***1315***	***1315***	***283***
	5.0	2867	2655	492	2228	2228	383	1791	1791	308	1497	1497	258	1204	1204	207
	6.0	***2267***	***2267***	***324***	***1967***	***1967***	***282***	***1673***	***1673***	***240***	***1386***	***1386***	***199***	***1103***	***1103***	***158***
	7.0	2149	2149	264	1856	1856	228	1569	1569	193	1289	1289	158	1008	1008	124
	8.0	***2039***	***2039***	***219***	***1752***	***1752***	***188***	***1471***	***1471***	***158***	***1191***	***1191***	***128***	***-***	***-***	***-***

TABLE 7 COOLING CAPACITIES (26°C DB, 18°C WB AIR ENTERING TEMP. HIGH SPEED)

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	1466	1064	419	1216	948	348	959	834	275	722	722	207	606	606	174
	4.0	***1347***	***1007***	***289***	***1091***	***891***	***234***	***840***	***778***	***180***	***667***	***667***	***143***	***549***	***549***	***118***
	5.0	1216	946	209	961	832	165	737	724	127	604	604	104	496	496	85
	6.0	***1075***	***883***	***154***	***828***	***769***	***119***	***667***	***667***	***96***	***564***	***564***	***81***	***463***	***463***	***66***
	7.0	927	815	114	754	731	93	634	634	78	533	533	65	433	433	53
	8.0	***866***	***786***	***93***	***707***	***702***	***76***	***602***	***602***	***65***	***501***	***501***	***54***	***403***	***403***	***43***
2	3.0	1602	1200	458	1329	1075	380	1044	946	299	809	809	232	678	678	195
	4.0	***1466***	***1135***	***314***	***1181***	***1007***	***254***	***916***	***879***	***197***	***742***	***742***	***160***	***612***	***612***	***132***
	5.0	1319	1069	226	1034	937	178	804	804	138	671	671	115	538	538	93
	6.0	***1153***	***992***	***165***	***897***	***864***	***128***	***726***	***726***	***104***	***612***	***612***	***88***	***501***	***501***	***72***
	7.0	996	915	122	802	799	98	685	685	84	576	576	71	467	467	57
	8.0	***906***	***866***	***97***	***759***	***759***	***82***	***650***	***650***	***70***	***540***	***540***	***58***	***434***	***434***	***47***
3	3.0	2470	1833	706	2034	1633	582	1594	1435	456	1233	1233	353	1027	1027	294
	4.0	***2219***	***1715***	***476***	***1766***	***1510***	***379***	***1360***	***1316***	***292***	***1109***	***1109***	***238***	***899***	***899***	***194***
	5.0	1931	1583	331	1498	1382	257	1174	1174	202	958	958	165	758	758	131
	6.0	***1614***	***1435***	***231***	***1229***	***1222***	***176***	***1023***	***1023***	***147***	***862***	***862***	***124***	***702***	***702***	***101***
	7.0	1319	1280	162	1126	1126	138	965	965	118	803	803	99	648	648	80
	8.0	***1240***	***1227***	***133***	***1068***	***1068***	***115***	***906***	***906***	***97***	***752***	***752***	***81***	***597***	***597***	***64***
4	3.0	2833	2071	810	2345	1846	671	1848	1625	529	1405	1405	403	1177	1177	338
	4.0	***2581***	***1951***	***553***	***2089***	***1729***	***448***	***1608***	***1510***	***345***	***1288***	***1288***	***277***	***1055***	***1055***	***227***
	5.0	2307	1825	396	1818	1604	312	1397	1387	240	1153	1153	198	908	908	156
	6.0	***2014***	***1691***	***288***	***1548***	***1471***	***222***	***1236***	***1236***	***177***	***995***	***995***	***143***	***811***	***811***	***116***
	7.0	1691	1539	207	1300	1300	159	1115	1115	137	931	931	114	751	751	92
	8.0	***1442***	***1406***	***155***	***1232***	***1232***	***132***	***1051***	***1051***	***113***	***871***	***871***	***94***	***694***	***694***	***75***
5	3.0	3628	2685	1037	2997	2395	857	2361	2111	676	1818	1818	521	1518	1518	435
	4.0	***3290***	***2526***	***705***	***2654***	***2238***	***570***	***2048***	***1954***	***440***	***1654***	***1654***	***356***	***1346***	***1346***	***290***
	5.0	2916	2354	500	2280	2062	392	1765	1765	303	1452	1452	250	1109	1109	191
	6.0	***2502***	***2163***	***358***	***1886***	***1849***	***270***	***1518***	***1518***	***217***	***1245***	***1245***	***179***	***1013***	***1013***	***145***
	7.0	1998	1908	245	1624	1624	199	1392	1392	171	1164	1164	143	937	937	115
	8.0	***1790***	***1775***	***192***	***1543***	***1543***	***166***	***1311***	***1311***	***141***	***1084***	***1084***	***117***	***864***	***864***	***93***
6	3.0	4515	3379	1290	3701	3007	1059	2880	2636	825	2260	2260	648	1876	1876	538
	4.0	***4014***	***3145***	***861***	***3180***	***2766***	***682***	***2449***	***2400***	***526***	***1999***	***1999***	***430***	***1582***	***1582***	***340***
	5.0	3440	2882	590	2606	2478	448	2045	2045	352	1641	1641	282	1347	1347	232
	6.0	***2632***	***2482***	***376***	***2117***	***2117***	***303***	***1823***	***1823***	***261***	***1530***	***1530***	***219***	***1243***	***1243***	***178***
	7.0	2319	2289	284	1999	1999	245	1713	1713	210	1426	1426	175	1145	1145	141
	8.0	***2182***	***2182***	***234***	***1895***	***1895***	***204***	***1608***	***1608***	***173***	***1328***	***1328***	***143***	***1054***	***1054***	***113***

TABLE 8 COOLING CAPACITY (27°C DB, 19°C WB AIR ENTERING TEMP. HIGH SPEED)

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	1637	1120	468	1394	1005	399	1133	891	324	863	778	247	664	664	190
	4.0	***1527***	***1067***	***327***	***1269***	***949***	***272***	***1003***	***835***	***216***	***752***	***725***	***162***	***610***	***610***	***131***
	5.0	1399	1008	240	1058	890	194	874	779	150	667	667	115	547	547	94
	6.0	***1261***	***946***	***180***	***992***	***829***	***142***	***745***	***717***	***107***	***615***	***615***	***88***	***514***	***514***	***74***
	7.0	1110	879	136	851	766	104	688	682	84	583	583	72	482	482	59
	8.0	***977***	***821***	***105***	***794***	***740***	***85***	***651***	***651***	***70***	***551***	***551***	***59***	***452***	***452***	***49***
2	3.0	1796	1260	513	1528	1139	437	1231	1010	353	939	882	269	745	745	214
	4.0	***1664***	***1198***	***357***	***1381***	***1073***	***296***	***1082***	***943***	***232***	***821***	***813***	***176***	***680***	***680***	***146***
	5.0	1519	1132	261	1224	1004	210	939	876	161	740	740	127	609	609	105
	6.0	***1362***	***1064***	***195***	***1063***	***932***	***152***	***811***	***802***	***116***	***666***	***666***	***96***	***556***	***556***	***80***
	7.0	1191	989	146	901	852	111	740	740	91	631	631	78	521	521	64
	8.0	***1020***	***910***	***109***	***835***	***814***	***90***	***704***	***704***	***76***	***595***	***595***	***64***	***487***	***487***	***52***
3	3.0	2780	1932	795	2345	1733	671	1883	1534	539	1422	1334	408	1133	1133	325
	4.0	***2540***	***1819***	***545***	***2075***	***1614***	***445***	***1614***	***1416***	***347***	***1229***	***1222***	***264***	***1009***	***1009***	***217***
	5.0	2260	1694	388	1855	1488	307	1353	1290	233	1078	1078	185	858	858	148
	6.0	***1951***	***1558***	***279***	***1470***	***1343***	***210***	***1126***	***1126***	***161***	***941***	***941***	***135***	***781***	***781***	***112***
	7.0	1580	1392	194	1223	1205	150	1044	1044	128	882	882	108	726	726	89
	8.0	***1370***	***1289***	***147***	***1147***	***1147***	***123***	***985***	***985***	***106***	***827***	***827***	***89***	***673***	***672***	***72***
4	3.0	3166	2176	905	2691	1956	770	2172	1732	622	1660	1514	476	1292	1292	371
	4.0	***2931***	***2064***	***628***	***2427***	***1838***	***521***	***1909***	***1616***	***410***	***1442***	***1405***	***310***	***1175***	***1175***	***253***
	5.0	2669	1945	458	2093	1717	369	1645	1499	283	1277	1277	220	1044	1044	180
	6.0	***2375***	***1814***	***340***	***1848***	***1586***	***265***	***1390***	***1365***	***199***	***1127***	***1127***	***162***	***901***	***901***	***129***
	7.0	2044	1669	251	1533	1439	188	1206	1206	148	1021	1021	126	841	841	103
	8.0	***1668***	***1501***	***179***	***1337***	***1324***	***144***	***1142***	***1142***	***123***	***961***	***961***	***103***	***781***	***781***	***84***
5	3.0	4068	2825	1163	3452	2541	987	2775	2249	795	2119	1964	607	1672	1672	480
	4.0	***3745***	***2670***	***803***	***3098***	***2384***	***665***	***2422***	***2093***	***520***	***1831***	***1808***	***394***	***1508***	***1508***	***324***
	5.0	3393	2512	582	2690	2216	466	2058	1924	354	1624	1624	279	1301	1301	224
	6.0	***2977***	***2329***	***426***	***2290***	***2027***	***328***	***1705***	***1705***	***244***	***1371***	***1371***	***197***	***1129***	***1129***	***162***
	7.0	2482	2110	304	1785	1758	219	1508	1508	185	1276	1276	157	1048	1048	129
	8.0	***1977***	***1866***	***212***	***1654***	***1654***	***178***	***1427***	***1427***	***153***	***1200***	***1200***	***129***	***973***	***973***	***105***
6	3.0	5074	3556	1450	4277	3192	1224	3414	2820	978	2586	2454	741	2078	2078	596
	4.0	***4609***	***3338***	***988***	***3753***	***2962***	***806***	***2893***	***2586***	***621***	***2208***	***2208***	***475***	***1810***	***1810***	***390***
	5.0	4040	3085	693	3180	2703	544	2345	2298	403	1862	1862	320	1494	1494	257
	6.0	***3362***	***2786***	***481***	***2371***	***2303***	***339***	***1967***	***1967***	***282***	***1673***	***1673***	***240***	***1386***	***1386***	***199***
	7.0	2567	2406	315	2156	2150	265	1856	1856	228	1569	1569	193	1289	1289	159
	8.0	***2397***	***2311***	***257***	***2039***	***2039***	***219***	***1752***	***1752***	***188***	***1471***	***1471***	***158***	***1191***	***1191***	***128***

COOLING CAPACITIES (28°C DB, 20°C WB AIR ENTERING TEMP. HIGH SPEED) TABLE 9

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	1820	1178	520	1576	1062	451	1316	948	377	1034	832	296	764	722	219
	4.0	***1709***	***1124***	***366***	***1455***	***1007***	***312***	***1186***	***893***	***255***	***904***	***779***	***194***	***669***	***669***	***144***
	5.0	1587	1067	272	1322	950	227	1041	833	179	777	724	134	610	610	105
	6.0	***1455***	***1007***	***208***	***1178***	***889***	***169***	***897***	***773***	***128***	***670***	***666***	***96***	***564***	***564***	***81***
	7.0	1305	943	160	1022	824	125	779	722	96	632	632	78	532	532	65
	8.0	***1140***	***873***	***122***	***902***	***774***	***97***	***722***	***694***	***78***	***600***	***600***	***65***	***501***	***501***	***54***
2	3.0	1996	1319	570	1727	1198	494	1438	1074	412	1124	946	322	830	815	238
	4.0	***1865***	***1258***	***400***	***1588***	***1136***	***341***	***1281***	***1008***	***275***	***972***	***880***	***209***	***747***	***747***	***161***
	5.0	1727	1195	296	1433	1070	246	1120	941	192	840	813	144	678	678	117
	6.0	***1582***	***1133***	***226***	***1272***	***1003***	***182***	***958***	***869***	***137***	***735***	***735***	***105***	***612***	***612***	***88***
	7.0	1414	1062	173	1091	926	134	813	793	100	685	685	84	576	576	71
	8.0	***1224***	***982***	***131***	***939***	***858***	***101***	***764***	***760***	***82***	***650***	***650***	***70***	***540***	***540***	***58***
3	3.0	3095	2028	885	2665	1832	762	2199	1632	630	1711	1433	490	1264	1237	362
	4.0	***2860***	***1917***	***613***	***2410***	***1719***	***517***	***1924***	***1517***	***413***	***1449***	***1319***	***312***	***1119***	***1119***	***241***
	5.0	2600	1800	446	2123	1598	365	1628	1393	280	1209	1194	208	982	982	169
	6.0	***2300***	***1672***	***329***	***1800***	***1463***	***258***	***1319***	***1250***	***189***	***1030***	***1030***	***148***	***862***	***862***	***124***
	7.0	1951	1525	239	1429	1300	175	1126	1126	138	965	965	119	803	803	99
	8.0	***1532***	***1344***	***164***	***1264***	***1216***	***136***	***1064***	***1064***	***114***	***906***	***906***	***98***	***752***	***752***	***81***
4	3.0	3511	2283	1003	3035	2061	868	2527	1839	723	1984	1618	569	1472	1406	422
	4.0	***3292***	***2178***	***706***	***2795***	***1952***	***600***	***2254***	***1726***	***484***	***1721***	***1508***	***370***	***1296***	***1296***	***279***
	5.0	3041	2062	522	2516	1833	432	1969	1607	338	1465	1393	252	1168	1168	201
	6.0	***2756***	***1936***	***394***	***2209***	***1705***	***316***	***1668***	***1480***	***239***	***1258***	***1258***	***180***	***1014***	***1014***	***145***
	7.0	2435	1799	299	1879	1567	231	1375	1337	169	1112	1112	137	931	931	115
	8.0	***2074***	***1648***	***223***	***1495***	***1396***	***161***	***1232***	***1232***	***132***	***1051***	***1051***	***113***	***871***	***871***	***94***
5	3.0	4509	2955	1289	3907	2680	1118	3240	2391	928	2533	2102	726	1871	1821	537
	4.0	***4215***	***2815***	***904***	***3569***	***2528***	***766***	***2876***	***2240***	***618***	***2179***	***1951***	***469***	***1664***	***1664***	***358***
	5.0	3878	2662	665	3189	2367	548	2482	2075	427	1836	1785	316	1477	1477	254
	6.0	***3481***	***2490***	***498***	***2765***	***2191***	***396***	***2058***	***1889***	***295***	***1563***	***1563***	***224***	***1245***	***1245***	***179***
	7.0	3027	2299	371	2260	1975	277	1624	1624	199	1392	1392	171	1164	1164	143
	8.0	***2442***	***2051***	***262***	***1821***	***1758***	***196***	***1543***	***1543***	***166***	***1311***	***1311***	***141***	***1084***	***1084***	***117***
6	3.0	5653	3730	1616	4865	3373	1392	4001	3004	1146	3101	2635	889	2312	2277	663
	4.0	***5216***	***3525***	***1118***	***4382***	***3160***	***940***	***3467***	***2781***	***745***	***2606***	***2415***	***560***	***2026***	***2026***	***436***
	5.0	4704	3298	807	3806	2918	654	2867	2523	493	2110	2110	363	1654	1654	285
	6.0	***4066***	***3026***	***582***	***3075***	***2610***	***440***	***2123***	***2114***	***304***	***1823***	***1823***	***261***	***1530***	***1530***	***220***
	7.0	3154	2639	387	2371	2271	291	1999	1999	246	1713	1713	211	1426	1426	175
	8.0	***2671***	***2420***	***287***	***2215***	***2175***	***238***	***1895***	***1895***	***204***	***1608***	***1608***	***173***	***1328***	***1328***	***143***

COOLING CAPACITIES (29°C DB, 21°C WB AIR ENTERING TEMP. HIGH SPEED) TABLE 10

TH_20 (°C)		5			7			9			11			13		
YFSE	ΔTH_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20	Total	Sensible	Flow H_20
Model	K	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s	W	W	l/s
1	3.0	2005	1234	573	1762	1118	504	1502	1003	430	1220	889	350	927	776	266
	4.0	***1894***	***1180***	***406***	***1643***	***1064***	***353***	***1377***	***951***	***296***	***1087***	***836***	***234***	***798***	***723***	***172***
	5.0	1776	1124	305	1518	1010	261	1235	893	212	942	779	162	686	671	118
	6.0	***1648***	***1066***	***236***	***1377***	***951***	***197***	***1083***	***833***	***155***	***798***	***720***	***114***	***613***	***613***	***88***
	7.0	1516	1009	186	1224	889	150	923	770	113	701	676	86	581	581	71
	8.0	***1355***	***942***	***145***	***1053***	***821***	***113***	***823***	***729***	***88***	***657***	***650***	***71***	***551***	***551***	***59***
2	3.0	2200	1377	629	1934	1258	553	1644	1134	471	1333	1009	382	1006	882	288
	4.0	***2072***	***1317***	***444***	***1796***	***1196***	***385***	***1500***	***1074***	***322***	***1172***	***945***	***252***	***861***	***817***	***185***
	5.0	1934	1255	332	1651	1135	283	1338	1009	230	1010	879	174	747	747	129
	6.0	***1796***	***1196***	***257***	***1495***	***1071***	***214***	***1167***	***942***	***167***	***859***	***811***	***123***	***673***	***673***	***97***
	7.0	1637	1129	201	1319	1001	162	987	867	121	745	741	92	631	631	78
	8.0	***1462***	***1058***	***157***	***1124***	***923***	***121***	***859***	***807***	***92***	***704***	***704***	***76***	***595***	***595***	***64***
3	3.0	3410	2119	975	2990	1928	855	2530	1730	724	2034	1531	583	1525	1333	437
	4.0	***3190***	***2015***	***684***	***2750***	***1821***	***590***	***2260***	***1619***	***485***	***1745***	***1417***	***375***	***1278***	***1224***	***275***
	5.0	2940	1902	504	2480	1708	426	1965	1502	338	1456	1298	251	1095	1095	189
	6.0	***2660***	***1782***	***380***	***2158***	***1577***	***309***	***1628***	***1366***	***233***	***1181***	***1160***	***169***	***941***	***941***	***135***
	7.0	2340	1651	287	1800	1434	221	1257	1199	154	1044	1044	128	882	882	109
	8.0	***1938***	***1488***	***208***	***1408***	***1269***	***151***	***1161***	***1143***	***125***	***985***	***985***	***106***	***827***	***827***	***89***
4	3.0	3861	2386	1103	3391	2165	970	2888	1947	827	2345	1727	672	1773	1506	509
	4.0	***3653***	***2286***	***783***	***3161***	***2061***	***678***	***2636***	***1841***	***566***	***2059***	***1614***	***443***	***1514***	***1400***	***326***
	5.0	3413	2175	585	2898	1949	498	2345	1725	403	1766	1498	304	1303	1290	224
	6.0	***3150***	***2058***	***450***	***2603***	***1828***	***373***	***2029***	***1600***	***291***	***1480***	***1376***	***212***	***1149***	***1149***	***165***
	7.0	2844	1927	349	2270	1694	279	1683	1460	207	1224	1224	151	1021	1021	126
	8.0	***2516***	***1792***	***270***	***1894***	***1544***	***203***	***1360***	***1310***	***146***	***1142***	***1142***	***123***	***961***	***961***	***103***
5	3.0	4979	3093	1423	4362	2812	1248	3709	2530	1062	2997	2243	859	2265	1959	650
	4.0	***4685***	***2952***	***1005***	***4054***	***2674***	***870***	***3363***	***2386***	***723***	***2624***	***2096***	***564***	***1927***	***1813***	***415***
	5.0	4362	2806	748	3694	2521	634	2967	2228	510	2220	1932	382	1644	1644	283
	6.0	***3995***	***2647***	***571***	***3290***	***2357***	***471***	***2523***	***2051***	***361***	***1816***	***1747***	***260***	***1422***	***1422***	***204***
	7.0	3584	2476	439	2805	2162	344	2018	1838	248	1508	1508	185	1276	1276	157
	8.0	***3068***	***2267***	***329***	***2199***	***1914***	***236***	***1674***	***1653***	***180***	***1427***	***1427***	***154***	***1200***	***1200***	***129***
6	3.0	6260	3908	1789	5463	3548	1563	4619	3188	1323	3701	2820	1061	2762	2452	792
	4.0	***5823***	***3704***	***1249***	***5008***	***3348***	***1075***	***4106***	***2978***	***882***	***3154***	***2603***	***678***	***2299***	***2232***	***495***
	5.0	5349	3494	918	4477	3126	769	3506	2738	603	2554	2347	439	1928	1928	332
	6.0	***4780***	***3251***	***684***	***3806***	***2857***	***545***	***2762***	***2432***	***396***	***1967***	***1967***	***282***	***1673***	***1673***	***240***
	7.0	4040	2950	495	2946	2438	342	2189	2141	269	1856	1856	228	1569	1569	193
	8.0	***3221***	***2512***	***319***	***2462***	***2286***	***264***	***2045***	***2039***	***220***	***1752***	***1752***	***188***	***1471***	***1471***	***158***

2 PIPE MODELS FAN SPEED CAPACITY CORRECTION FACTORS FOR EQUAL WATER TEMPERATURE CHANGE — TABLE 11

YFSE Model	Fan Speed	Air FLoww	Cooling Capacity		Heating
			Total	Sensible	Capacity
	High	1.00	1.00	1.00	1.00
1	***Medium***	***0.85***	***0.59***	***0.59***	***0.86***
	Low	0.57	0.48	0.48	0.68
	High	1.00	1.00	1.00	1.00
2	***Medium***	***0.85***	***0.82***	***0.85***	***0.82***
	Low	0.76	0.63	0.71	0.62
	High	1.00	1.00	1.00	1.00
3	***Medium***	***0.79***	***0.63***	***0.62***	***0.68***
	Low	0.65	0.43	0.42	0.52
	High	1.00	1.00	1.00	1.00
4	***Medium***	***0.83***	***0.74***	***0.73***	***0.80***
	Low	0.63	0.51	0.49	0.55
	High	1.00	1.00	1.00	1.00
5	***Medium***	***0.66***	***0.77***	***0.79***	***0.73***
	Low	0.58	0.74	0.74	0.70
	High	1.00	1.00	1.00	1.00
6	***Medium***	***0.76***	***0.74***	***0.73***	***0.74***
	Low	0.58	0.64	0.63	0.67

2 PIPE MODELS FAN SPEED CAPACITY CORRECTION FACTORS FOR EQUAL WATER FLOW RATES — TABLE 12

YFSE Model	Fan Speed	Air Flow	Cooling Capacity		Heating
			Total	Sensible	Capacity
	High	1.00	1.00	1.00	1.00
1	***Medium***	***0.85***	***0.71***	***0.71***	***0.89***
	Low	0.57	0.58	0.58	0.72
	High	1.00	1.00	1.00	1.00
2	***Medium***	***0.85***	***0.89***	***0.89***	***0.85***
	Low	0.76	0.74	0.74	0.66
	High	1.00	1.00	1.00	1.00
3	***Medium***	***0.79***	***0.75***	***0.74***	***0.72***
	Low	0.65	0.55	0.53	0.56
	High	1.00	1.00	1.00	1.00
4	***Medium***	***0.83***	***0.82***	***0.80***	***0.82***
	Low	0.63	0.63	0.60	0.59
	High	1.00	1.00	1.00	1.00
5	***Medium***	***0.66***	***0.85***	***0.85***	***0.74***
	Low	0.58	0.81	0.81	0.72
	High	1.00	1.00	1.00	1.00
6	***Medium***	***0.76***	***0.85***	***0.84***	***0.76***
	Low	0.58	0.78	0.77	0.69

4 PIPE MODELS FAN SPEED CAPACITY CORRECTION FACTORS FOR EQUAL WATER TEMPERATURE CHANGE — TABLE 13

YFSE Model	Fan Speed	Air Flow	Cooling Capacity		Heating
			Total	Sensible	Capacity
	High	1.00	0.95	0.95	1.00
1	***Medium***	***0.85***	***0.58***	***0.58***	***0.88***
	Low	0.57	0.47	0.47	0.79
	High	1.00	0.95	0.95	1.00
2	***Medium***	***0.85***	***0.80***	***0.84***	***0.87***
	Low	0.76	0.62	0.69	0.82
	High	1.00	0.95	0.95	1.00
3	***Medium***	***0.79***	***0.62***	***0.61***	***0.89***
	Low	0.65	0.42	0.41	0.74
	High	1.00	0.95	0.95	1.00
4	***Medium***	***0.83***	***0.73***	***0.72***	***0.88***
	Low	0.63	0.50	0.48	0.71
	High	1.00	0.98	0.98	1.00
5	***Medium***	***0.66***	***0.76***	***0.77***	***0.85***
	Low	0.58	0.72	0.72	0.79
	High	1.00	0.98	0.98	1.00
6	***Medium***	***0.76***	***0.73***	***0.71***	***0.76***
	Low	0.58	0.62	0.62	0.75

4 PIPE MODELS FAN SPEED CAPACITY CORRECTION FACTORS FOR EQUAL WATER FLOW RATES — TABLE 14

YFSE Model	Fan Speed	Air Flow	Cooling Capacity		Heating
			Total	Sensible	Capacity
	High	1.00	0.95	0.95	1.00
1	***Medium***	***0.85***	***0.70***	***0.69***	***0.90***
	Low	0.57	0.57	0.57	0.82
	High	1.00	0.95	0.95	1.00
2	***Medium***	***0.85***	***0.87***	***0.87***	***0.88***
	Low	0.76	0.73	0.73	0.85
	High	1.00	0.95	0.95	1.00
3	***Medium***	***0.79***	***0.73***	***0.72***	***0.91***
	Low	0.65	0.54	0.52	0.76
	High	1.00	0.95	0.95	1.00
4	***Medium***	***0.83***	***0.80***	***0.79***	***0.90***
	Low	0.63	0.62	0.59	0.74
	High	1.00	0.98	0.98	1.00
5	***Medium***	***0.66***	***0.83***	***0.83***	***0.86***
	Low	0.58	0.80	0.80	0.82
	High	1.00	0.98	0.98	1.00
6	***Medium***	***0.76***	***0.84***	***0.82***	***0.77***
	Low	0.58	0.76	0.76	0.76

STANDARD MODELS (2 PIPE) HEATING CAPACITIES — TABLE 15

YFQE Model	Water Flow (l/h)															
	50	100	200	300	400	500	600	700	800	900	1000	1250	1500	1750	2000	2250
1	1066	1234	1333	1403	1457	1502	-	-	-	-	-	-	-	-	-	-
2	***1238***	***1454***	***1580***	***1670***	***1739***	***1796***	***1844***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
3	-	1700	1873	1996	2091	2169	2235	2292	2342	2387	2427	-	-	-	-	-
4	***-***	***2152***	***2361***	***2510***	***2626***	***2720***	***2800***	***2869***	***2930***	***2984***	***3034***	***3079***	***-***	***-***	***-***	***-***
5	-	-	2738	3128	3286	3524	3673	3772	3898	4016	4088	4153	4213	4269	4321	4369
6	-	-	3006	3291	3511	3692	3845	3977	4093	4198	4292	4378	4458	4531	4599	4663

20°C DB Entering Air Temperature, 50°C Entering Water Temperature

STANDARD MODELS (2 PIPE) HEATING CAPACITY - CORRECTION FACTORS

TABLE 16

Entering	Entering Water Temperature (°C)									
Air Temp. (°C)	35	40	45	50	55	60	65	70	75	80
16	0.629	0.818	0.991	1.143	1.347	1.538	1.651	1.802	1.948	2.113
19	***0.532***	***0.707***	***0.877***	***1.036***	***1.221***	***1.394***	***1.544***	***1.703***	***1.861***	***2.042***
20	0.500	0.670	0.839	1.000	1.179	1.346	1.508	1.670	1.832	2.018
22	***0.432***	***0.595***	***0.765***	***0.936***	***1.103***	***1.259***	***1.441***	***1.607***	***1.776***	***1.969***
25	0.331	0.483	0.654	0.839	0.989	1.129	1.341	1.513	1.690	1.896

MODELS WITH AUXILIARY COIL (4 PIPE) HEATING CAPACITIES

TABLE 17

YFSE	Water Flow (l/h)															
Model	50	100	200	300	400	500	600	700	800	900	1000	1250	1500	1750	2000	2250
1	1194	1299	1361	1404	-	-	-	-	-	-	-	-	-	-	-	-
2	***1303***	***1421***	***1490***	***1540***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
3	1540	1717	1821	1894	1951	-	-	-	-	-	-	-	-	-	-	-
4	***1782***	***1988***	***2109***	***2194***	***2260***	***2315***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***	***-***
5	-	2615	2759	2860	2939	3004	3059	3106	3147	-	-	-	-	-	-	-
6	-	***3202***	***3367***	***3485***	***3576***	***3650***	***3713***	***3768***	***3816***	***3859***	-	-	-	-	-	-

20°C DB Entering Air Temperature, 70°C Entering Water Temperature

AUXILIARY COIL (4 PIPE) HEATING CAPACITY - CORRECTION FACTORS

TABLE 18

Entering	Entering Water Temperature (°C)									
Air Temp. (°C)	35	40	45	50	55	60	65	70	75	80
16	0.377	0.490	0.594	0.684	0.807	0.921	0.989	1.079	1.166	1.266
19	***0.319***	***0.423***	***0.525***	***0.620***	***0.731***	***0.835***	***0.924***	***1.020***	***1.114***	***1.223***
20	0.299	0.401	0.502	0.599	0.706	0.806	0.903	1.000	1.097	1.209
22	***0.259***	***0.357***	***0.458***	***0.560***	***0.660***	***0.754***	***0.863***	***0.962***	***1.063***	***1.179***
25	0.198	0.289	0.392	0.503	0.592	0.676	0.803	0.906	1.012	1.135

STANDARD MODELS (2 PIPE) WATER PRESSURE DROP (kPA)

TABLE 19

YFSE	Water Flow (l/h)															
Model	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
1 - 2	3.74	10.27	18.53	28.18	39.0	50.9	63.6	77.3	91.8	107.0	122.9	139.5	156.8	174.6	193.1	212.1
3 - 4	***1.35***	***4.14***	***7.34***	***11.20***	***14.0***	***21.5***	***24.0***	***29.8***	***36.0***	***42.7***	***49.8***	***57.3***	***65.2***	***73.5***	***82.2***	***91.2***
5	1.05	3.50	6.74	7.68	13.3	16.9	23.1	27.5	32.2	37.0	42.0	47.2	52.4	57.9	63.4	69.1
6	***0.64***	***1.89***	***3.55***	***5.55***	***7.9***	***10.4***	***13.2***	***16.9***	***20.1***	***23.0***	***25.9***	***30.6***	***34.6***	***38.9***	***43.3***	***47.8***

The data refers to an average water temperature of 10 °C in cooling mode the correction factors for a different average water temperature are:

TH_2O mean (°C)	5	10	15	20	50	60	70	80
Factor	1.03	1	0.98	0.95	0.9	0.87	0.83	0.79

Flow too high

AUXILIARY COIL (4 PIPE MODELS) WATER PRESSURE DROP (kPA)

TABLE 20

YFSE	Water Flow (l/h)																		
Model	50	75	100	125	150	175	200	225	250	275	300	325	350	375	400	425	450	475	500
1 - 2	2.6	6.7	15.1	20.2	32.6	46.4	63.0	82.4	104.9	130.5	159.3	191.3	226.7	265.5	307.8	353.6	403.1	456.2	513.0
3 - 4	***1.6***	***3.0***	***4.7***	***7.0***	***8.9***	***12.0***	***14.0***	***16.8***	***19.9***	***23.1***	***26.5***	***30.1***	***33.8***	***37.7***	***41.7***	***45.9***	***50.2***	***54.7***	***59.3***
5	1.7	3.2	5.1	7.2	9.6	12.2	15.0	18.0	21.3	24.7	28.3	32.1	36.0	40.1	44.4	48.8	53.4	58.1	62.9
6	***2.3***	***4.3***	***6.6***	***9.2***	***12.2***	***15.3***	***18.8***	***22.4***	***26.3***	***30.3***	***34.6***	***39.0***	***43.7***	***48.5***	***53.4***	***58.5***	***63.8***	***69.2***	***74.8***

The data refers to an average water temperature of 65 °C in heating mode the correction factor for a different average water temperature is :

TH_2O mean (°C)	50	55	60	65	70	75
Factor	1.06	1.04	1.02	1	0.98	0.96

Flow too high

TABLE 21 ALTITUDE CAPACITY CORRECTION FACTORS

Metres Above Sea Level	Cooling Capacity		Heating Capacity
	Total	Sensible	
0	1.00	1.00	1.00
300	***0.99***	***0.96***	***0.96***
600	0.98	0.93	0.93
900	***0.97***	***0.89***	***0.89***

Metres Above Sea Level	Cooling Capacity		Heating Capacity
	Total	Sensible	
1200	0.96	0.86	0.86
1500	***0.94***	***0.83***	***0.83***
1800	0.93	0.80	0.80

TABLE 22 PHYSICAL DATA

YFSE Model			1	2	3	4	5	6
Dimensions	Width	mm	768	768	902	902	1069	1236
	Depth	mm	188	188	188	188	188	188
	Height	mm	570	570	570	570	570	570
Total Unit Weight	Standard Unit	kg	19	19	22	22	25.5	28.5
	With Auxiliary Coil	kg	20	20	23.5	23.5	27.5	30.5
Water Volume	Main Coil (Std)	l	0.38	0.38	0.51	0.51	0.68	0.84
	Auxiliary Coil	l	0.14	0.14	0.19	0.19	0.25	0.32
Power Supply			230 V (+/-10%) - 1 Ø - 50 Hz					
Water Connection Sizes			½" Gas Female					
Maximum Water Temperature		°C	95					
Maximum Water Pressure		Mpa	1.4 (1.0 with optional control valve kit)					
Maximum Power Consumption		W	24	30	30	32	35	50
Maximum Current		A	0.10	0.13	0.13	0.14	0.15	0.22
Fans			1					

TABLE 23 SOUND POWER (LW) & PRESSURE (LP)

YFSE Model	High Speed		Medium Speed		Low Speed	
	Lw	Lp	Lw	Lp	Lw	Lp
1	36	28	34	26	31	23
2	***44***	***36***	***40***	***32***	***36***	***28***
3	45	37	39	31	36	28
4	***48***	***40***	***45***	***37***	***42***	***34***
5	50	42	44	36	42	34
6	***53***	***45***	***45***	***37***	***42***	***34***

Lp = Sound Pressure - Levels measured in room with a volume of 100 m³ and reverberation time of 0.5 seconds.

Lw = Sound Power - Levels according to Eurovent Specification 8/2 (ISO 3741/88) and Eurovent Certified

ACCESSORY DATA

CONTROL VALVE WATER PRESSURE DROPS (KPA) TABLE 24

Valve Manufacturer		WATER FLOW (l/h)												
		50	100	200	300	400	500	600	700	800	900	1,000	1250	1500
Cazzaniga	Direct	0.1	0.4	1.6	3.5	6.3	9.8	14.1	19.1	25.0	31.6	39.1	61.0	87.9
	By-pass	0.2	0.7	2.8	6.3	11.1	17.4	25.0	34.0	44.4	56.3	69.4	108.5	156.3
Johnson	Direct	0.1	0.4	1.6	3.5	6.3	9.8	14.1	19.1	25.0	31.6	39.1	61.0	-
	By-pass	0.3	1.0	4.0	9.0	16.0	25.0	36.0	49.0	64.0	81.0	100	156	-

Flow too high

ELECTRIC HEATER DATA TABLE 25

YFSE Model	1 and 2		3 and 4		5		6	
Power level	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH
Heating Capacity (W)	500	1000	900	1800	1300	2500	1500	3000
Absorbed Current (A)	2.2	4.3	3.9	7.8	5.7	10.9	6.5	13.0
Minimum Fan Speed	MEDIUM							

ACCESSORY USAGE TABLE 26

	ACCESSORIES BY VERSION	
	Vertical Exposed	Horizontal Exposed
Feet	Option	Option
Auxiliary Horizontal Drain Pan	Not Required	Option
Auxiliary Vertical Drain Pan	Option	Not Required
Back Panel	Option	Not Required
Fresh Air Damper	Option	Not Required
Electric Heater	Option	Option
2 Pipe On-Off Valve Kit	Option	Option
2 Pipe Modulating Valve Kit	Option	Option
4 Pipe On-Off Valve Kit	Option	Option
4 Pipe Modulating Valve Kit	Option	Option
Base Controller	Option	Option
2 Pipe On-Off Controller	Option	Option
4 Pipe On-Off Controller	Option	Option
2-4 Pipe Modulating Controller	Option	Option
Front Air Grille	Option	Option
Control Transformer 230/24 V	Option	Option
Auxiliary Coil	Option	Option
Condensate Drain Pump	Option	Option
Basic Cabinet	Option	Option
Horizontal Cabinet Kit	Not Required	Option
Auto Changeover Switch	Option	Option

1	Feet
2	Auxiliary Horizontal Drain Pan
3	Auxiliary Vertical Drain Pan
4	Back Panel
5	Fresh Air Damper
6	Electric Heater
7	2 Pipe On-Off Valve Kit
8	2 Pipe Modulating Valve Kit
9	4 Pipe On-Off Valve Kit
10	4 Pipe Modulating Valve Kit
11	Base Controller
12	2 Pipe On-Off Controller
13	4 Pipe On-Off Controller
14	2-4 Pipe Modulating Controller
15	Front Air Grille
16	Control Transformer 230/24 V
17	Auxiliary Coil
18	Condensate Drain Pump
19	Basic Cabinet
20	Horizontal Cabinet Kit
21	Auto Changeover Switch

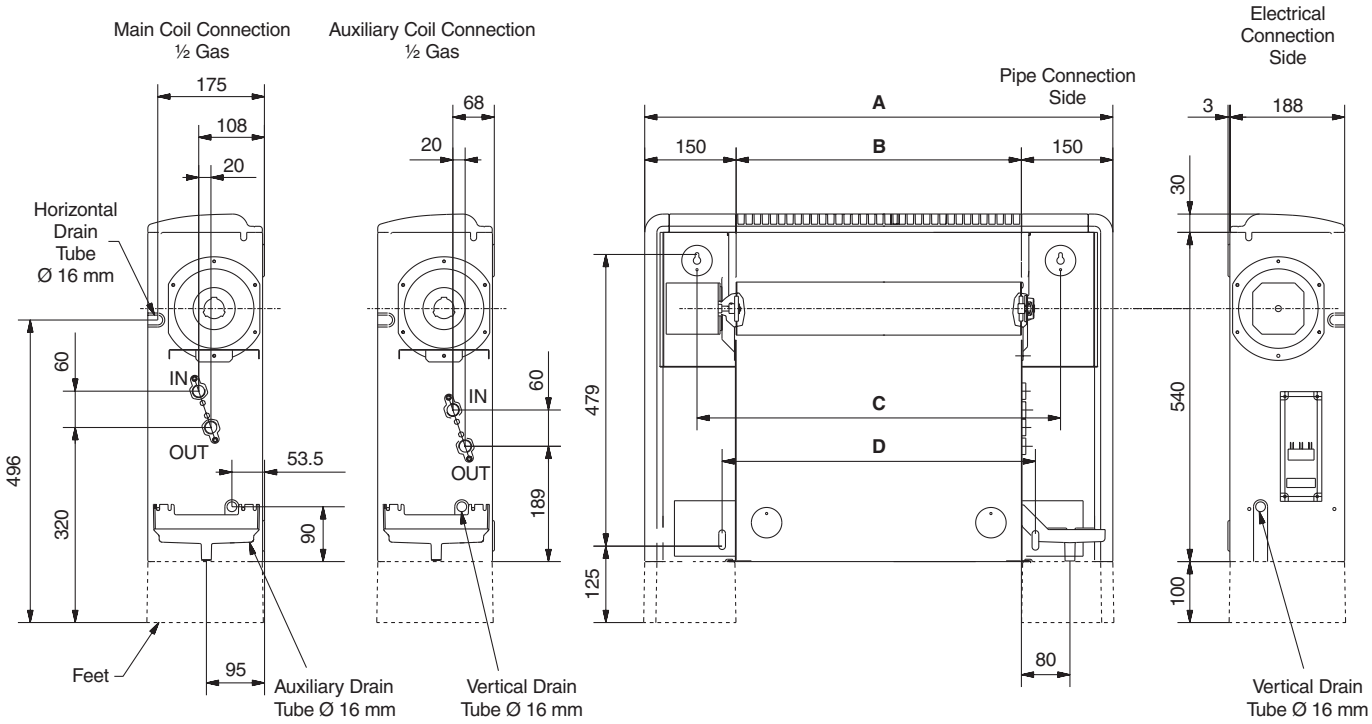
IF YOU SELECT THIS ITEM ➤ / YOU NEED THIS ITEM ▼		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Feet	1	○	❑	❑	○	○	❑	○(2)	○(2)	○(2)	○(2)	❑	❑	❑	❑	○	❑	❑	❑	❑	○(1)	❑
Auxiliary Horizontal Drain Pan	2	❑	○	●	●	❑	❑	✢	✢	✢	✢	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑
Auxiliary Vertical Drain Pan	3	❑	●	○	❑	❑	❑	✢	✢	✢	✢	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑
Back Panel	4	❑	❑	❑	○	●	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑
Fresh Air Damper	5	❑	❑	❑	●	○	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑
Electric Heater	6	❑	❑	❑	❑	❑	○	❑	●	●	●	●	●	❑	●	❑	●	●	❑	❑	❑	●
2 Pipe On-Off Valve Kit	7	❑	❑	❑	❑	❑	❑	○	●	●	●	●	❑	●	●	❑	●	●	❑	❑	❑	●
2 Pipe Modulating Valve Kit	8	❑	❑	❑	❑	❑	●	●	○	●	●	❑	●	●	✢	❑	✢	●	❑	❑	❑	❑
4 Pipe On-Off Valve Kit	9	❑	❑	❑	❑	❑	●	●	●	○	●	●	●	❑	●	❑	●	❑	❑	❑	❑	●
4 Pipe Modulating Valve Kit	10	❑	❑	❑	❑	❑	●	●	●	●	○	❑	●	●	✢	❑	✢	❑	❑	❑	❑	❑
Base Controller	11	❑	❑	❑	❑	❑	●	●	○	●	○	○	●	●	○	❑	○	❑	❑	❑	❑	❑
2 Pipe On-Off Controller	12	❑	❑	❑	❑	❑	●	○	●	●	●	●	○	●	●	❑	●	●	❑	❑	❑	●
4 Pipe On-Off Controller	13	❑	❑	❑	❑	❑	○	●	●	○	●	●	●	○	●	❑	●	❑	❑	❑	❑	●
2-4 Pipe Modulating Controller	14	❑	❑	❑	❑	❑	●	●	○	●	○	❑	●	●	○	❑	○	❑	❑	❑	❑	○
Front Air Grille	15	❑	❑	❑	○	○	❑	❑	❑	❑	❑	❑	❑	❑	❑	○	❑	❑	❑	❑	○(1)	❑
Control Transformer 230/24 V	16	❑	❑	❑	❑	❑	●	●	○	●	○	❑	●	●	○	❑	○	❑	❑	❑	❑	○
Auxiliary Coil	17	❑	❑	❑	❑	❑	●	●	●	○	○	❑	●	○	❑	❑	❑	○	❑	❑	❑	❑
Condensate Drain Pump	18	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	❑	○	❑	❑	❑
Basic Cabinet	19	○	✢	○	○	○	✢	✢	✢	✢	✢	✢	✢	✢	✢	○	✢	✢	✢	○	○(1)	✢
Horizontal Cabinet Kit	20	●	✢	●	●	●	✢	✢	✢	✢	✢	✢	✢	✢	✢	●	✢	✢	✢	●	○	✢
Auto Changeover Switch	21	❑	❑	❑	❑	❑	●	●	❑	●	●	●	●	●	❑	❑	❑	❑	❑	❑	❑	○

(1) Included in the horizontal cabinet set
(2) With basic cabinet only

❑ Compatible but not Necessary
● Incompatible
○ Necessary
✢ Necessary to use alternative

DIMENSIONS

All dimensions in mm.



Dimensions - With Cabinet

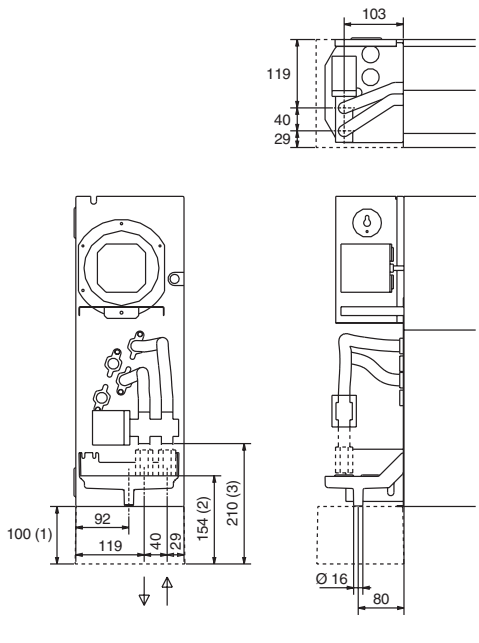
YFSE Model	Dimensions (mm)			
	A	B	C	D
1, 2	768	468	596.8	514
3, 4	902	602	730.8	648

YFSE Model	Dimensions (mm)			
	A	B	C	D
5	1069	769	897.8	815
6	1236	936	1064.8	982

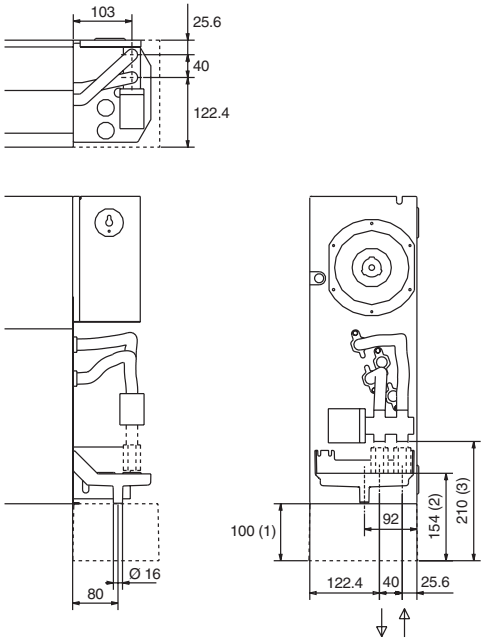
CONTROL VALVE CONNECTIONS

2 PIPE MODELS - VERTICAL MOUNTING

Left Hand Side Connection



Right Hand Side Connection

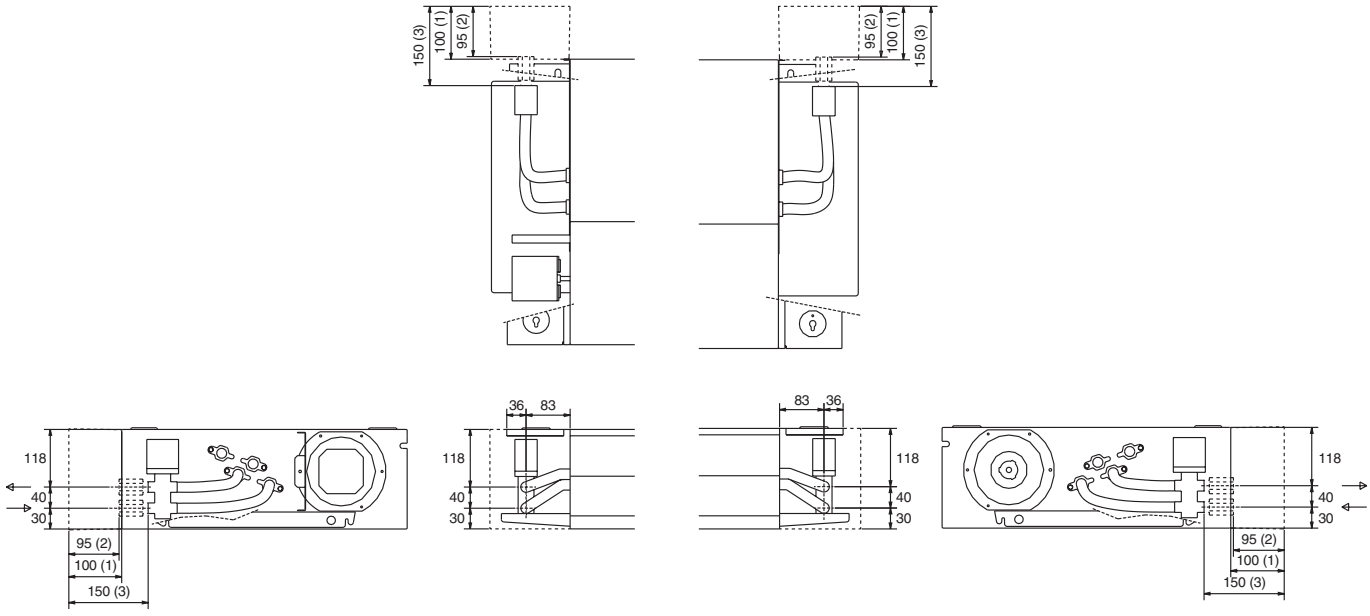


Notes: 1. Minimum distance of unit from floor. 2. Minimum distance of stop valve (optional) from floor.
3. Minimum distance of control valve from floor. 4. Internal diameter of the auxiliary drain pan holes is 28 mm.
5. Water connection sizes are ½ " male gas coupling or ½ " female gas coupling when optional stop valve is fitted.

2 PIPE MODELS - HORIZONTAL MOUNTING

Left Hand Side Connection

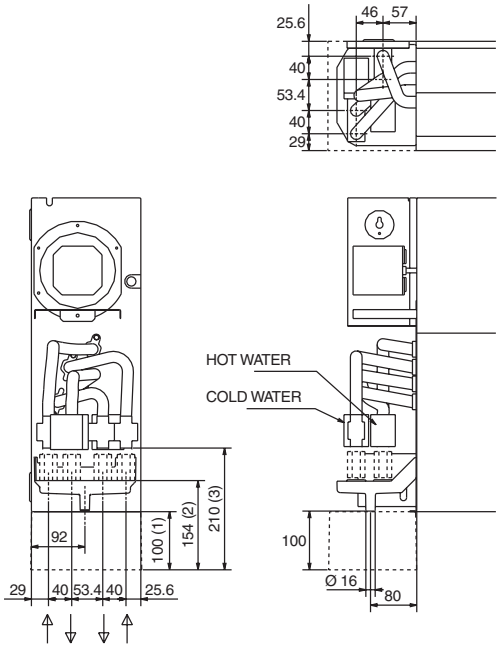
Right Hand Side Connection



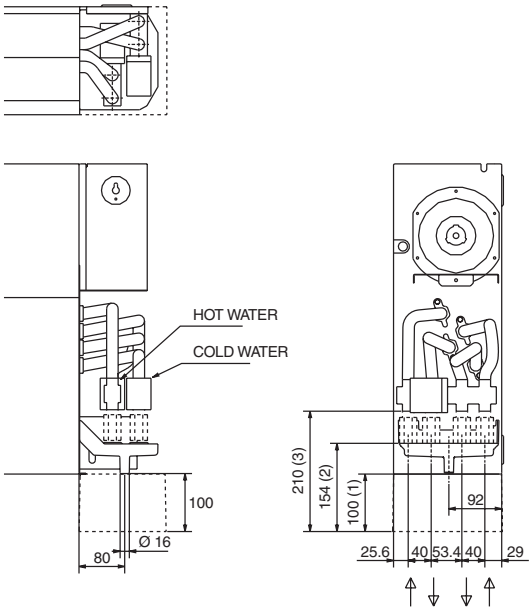
Notes: 1. Minimum distance of unit from wall. 2. Minimum distance of stop valve (optional) from wall.
3. Minimum distance of control valve from wall.
4. Water connection sizes are ½ " male gas coupling or ½ " female gas coupling when optional stop valve is fitted.

4 PIPE MODELS - VERTICAL MOUNTING

Left Hand Side Connection



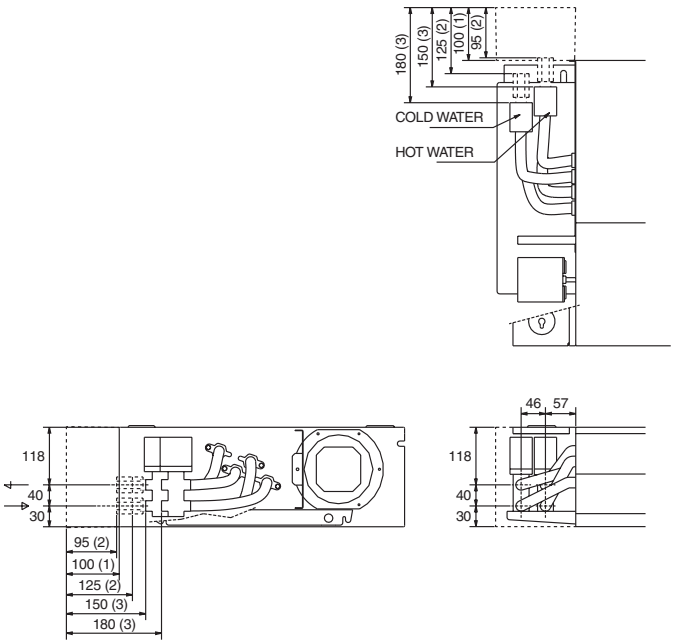
Right Hand Side Connection



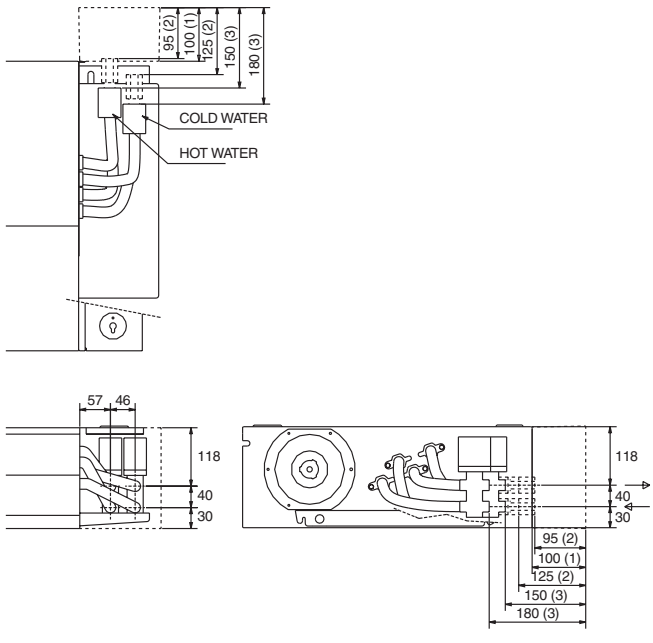
Notes: 1. Minimum distance of unit from floor. 2. Minimum distance of stop valve (optional) from floor.
3. Minimum distance of control valve from floor. 4. Internal diameter of the auxiliary drain pan holes is 28 mm.
5. Water connection sizes are ½ " male gas coupling or ½ " female gas coupling when optional stop valve is fitted.

4 PIPE MODELS - HORIZONTAL MOUNTING

Left Hand Side Connection



Right Hand Side Connection



Notes: 1. Minimum distance of unit from wall. 2. Minimum distance of stop valve (optional) from wall.
3. Minimum distance of control valve from wall.
4. Water connection sizes are ½ " male gas coupling or ½ " female gas coupling when optional stop valve is fitted.

NOTES