TECHNICAL DATA

- ***HEATING SECTION WITH GAS DIRECT HEAT EXCHANGER***

TYPE	M.U.	1		2		3		4		5	
Operating speed		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Heat exchanger	Mod.	MJ 30		MJ 30		MJ 40		MJ 20 (SUP)	M J20 (SUP)	M J30 (SUP)	MJ 30 (SUP)
								MJ 30 (INF)	-	MJ 40 (INF)	-
Burner tube	Mod.	MJ 30		MJ 40		MJ 40		MJ 20 + MJ 30		MJ 30 + MJ 40	
Destination country		IT		IT		IT		IT		IT	
Category		II 2H3+		II 2H3+		II 2H3+		II 2H3+		II 2H3+	
Heat input (burned)	kW	22.2	17.5	28.4	21.8	35.9	27.0	43.3	21,9	56.8	27,5
	kcal/h	19120	15050	24420	18690	30830	23180	37230	18834	48850	23650
Efficiency	%	94	92	94	92	94	92	94	94	94	94
Heat output (available)	kW	20.9	16.1	26.7	20.0	33.7	24.8	40.7	20,6	53.4	25,9
	kcal/h	17970	13840	22960	17200	28980	21320	35000	17716	45920	22274
Air flow-rate	m3/h	3825		5100		6375		7650		10200	
Max working static pressure	Pa	200		200		200		200		200	
Inlet/outlet Δt	°K	16.2	12.5	15.5	11.6	15.7	11.5	15.8	8.0	15.5	7.5
External air flow-rate	m3/h	1020		1275		1530		1870		2125	
Min gross fume temperature	°C	≈120	≈110	≈130	≈115	≈120	≈110	≈ 110	≈ 110	≈ 110	≈ 110
TR safety thermostat											
Quantity	N°	1		1		1		2		2	
Reset	Type	Automatic		Automatic		Automatic		Automatic		Automatic	
Calibration	°C	60		60		60		60		60	
LM safety thermostat											
Quantity	N°	1		1		1		2		2	
Reset	Type	Manual		Manual		Manual		Manual		Manual	
Calibration	°C	100		100		100		100		100	
Differential pressure switch	mBar	0.65		1.03		2.08		0.65 (HIGH)		1.50-1.63 (SUP)	
								1.50-1.63 (LOW)		2.70 (LOW)	
Fume extractor											
Residual head	Pa	≈60	≈55	≈50	≈48	≈55	≈50	≈55		≈50	
Electrical resistance	50W	-	180Ω	-	180Ω	-	180Ω	-		-	
Diaphragm for max L	∅ int	42		47		52		44.0 (HIGH)		46.5 (HIGH)	
								46.5 (LOW)		50.0 (LOW)	
Gas certification	N°	0694BO0054		0694BO0054		0694BO0054		0694BO0054		0694BO0054	

- ***FUEL GAS SETTING TABLE***

⚠ The appliance is preset and tested in factory with methane G20.

TYPE	M.U.	1		2		3		4		5	
Methane G20		MAX	MIN	MAX	MIN	MAX	MIN	MAX (*)	MIN (*)	MAX (*)	MIN (*)
Supply pressure	mbar	20		20		20		20		20	
Exchanger	Mod	MJ 30		MJ 30		MJ 40		MJ 20 (HIGH)	MJ 30 (LOW)	MJ 30 (HIGH)	MJ 40 (LOW)
Injector pressure	mbar	12.0	7.5	13.5	8.0	13.0	7.0	12.5	13.5	13.5	13.0
N° of injectors	N°	1		1		1		1	1	1	1
Injector ∅	mm	3.85		4.25		4.90		3.85	4.25	4.25	4.90
Consumption (1)	m3/h	2.35	1.85	3.01	2.31	3.80	2.86	4.58	2.32	6.01	2.91

(1) G20 references:
Atmospheric pressure 1013 mBar
Gas temperature 15°C
Lower heating value 34.02 MJ/m3

TYPE	M.U.	1		2		3		4		5	
Methane G25 (2)		MAX	MIN	MAX	MIN	MAX	MIN	MAX (*)	MIN (*)	MAX (*)	MIN (*)
Supply pressure	mbar	25		25		25		25		25	
Exchanger	Mod	MJ 30		MJ 30		MJ40		MJ 20 (HIGH)	MJ 30 (LOW)	MJ 30 (HIGH)	MJ 40 (LOW)
Injector pressure	mbar	12.0	7.5	13.5	8.0	13.0	7.0	12.5	13.5	13.5	13.0
N° of injectors	N°	1		1		1		1	1	1	1
Injector ∅	mm	4.25		4.65		5.45		4.25	4.65	4.65	5.45
Consumption (3)	m3/h	2.73	2.15	3.50	2.68	4.42	3.32	5.33	2.70	6.99	3.39

(*) In maximum speed operation both exchangers are active (higher + lower)
In minimum speed operation only one exchanger is active (higher)

(2) Only valid for the countries where it is distributed
(3) G25 references:
Atmospheric pressure 1013 mBar
Gas temperature 15°C
Lower heating value 29.25 MJ/m3

TYPE	M.U.	1		2		3		4		5	
Propane G31		MAX	MIN	MAX	MIN	MAX	MIN	MAX (*)	MIN (*)	MAX (*)	MIN (*)
Supply pressure	mbar	37		37		37		37		37	
Exchanger	Mod	MJ 30		MJ 30		MJ40		MJ 20 (SUP)	MJ 30 (INF)	MJ 30 (SUP)	MJ 40 (INF)
Injector pressure	mbar	36.1	20.5	36.1	21.0	36.1	18.0	36.4	36.4	36.4	36.4
N° of injectors	N°	1		1		1		1	1	1	1
Injector ∅	mm	2.30		2.55		3.00		2.30	2.55	2.55	3.00
Primary air diaphragm inner ∅	mm	28		28		35		28	28	28	35
Consumption (4)	m3/h	0.91	0.72	1.16	0.89	1.47	1.10	1.77	0.90	2.32	1.13
	kg/h	1.72	1.36	2.21	1.69	2.79	2.10	3.36	1.70	4.41	2.14
	l/h	3.39	2.67	4.33	3.33	5.48	4.12	6.61	3.34	8.67	4.20

(4) G31 references:
Atmospheric pressure 1013 mBar
Gas temperature 15°C
Lower heating value 88 MJ/m3 - 11070 kcal/kg – 5635 kcal/

TYPE	M.U.	1		2		3		4		5	
Butane G30		MAX	MIN	MAX	MIN	MAX	MIN	MAX(*)	MIN (*)	MAX (*)	MIN (*)
Supply pressure	mbar	30		30		30		30		30	
Exchanger	Mod	MJ 30		MJ 30		MJ40		MJ20	MJ30	MJ30	MJ40
Injector pressure	mbar	29.0	19.0	29.0	19.0	29.0	19.0	29.0	29.0	29.0	29.0
N° of injectors	N°	1		1		1		1	1	1	1
Injector ∅	mm	2.30		2.55		3.00		2.30	2.55	2.55	3.00
Primary air diaphragm inner ∅	mm	28		28		35		28	28	28	35
Consumption (5)	\\m3/h	0.69	0.54	0.88	0.68	1.11	0.84	1.34	0.68	1.76	0.85
	kg/h	1.75	1.38	2.24	1.72	2.83	2.13	3.41	1.73	4.48	2.17
	l/h	3.04	2.39	3.89	2.98	4.91	3.69	5.92	3.00	7.77	3.76

(*) In maximum speed operation both exchangers are active (higher + lower)
In minimum speed operation only one exchanger is active (higher)

(5) G30 references:
Atmospheric pressure 1013 mBar
Gas temperature 15°C
Lower heating value 116.09 MJ/m3 - 10905 kcal/kg – 6285 kcal/

- ***COOLING SECTION AND HEAT PUMP:***

TYPE	M.U.	1		2		3		4		5	
		MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
Total cooling capacity (1)	kW	19.4	10.6	25.7	15.8	32.1	18.8	42.7	23.9	51.5	29.0
Compressor power input (1)	kW	6.5	3.2	9.6	4.7	11.1	5.5	14.3	7.2	17.1	8.5
Heat input (2)	kW	20.5	9.8	26.9	14.5	33.6	17.5	44.0	21.9	53.5	26.8
Compressor power input (2)	kW	5.0	2.5	7.3	3.6	8.5	4.2	11.0	5.5	13.2	6.6
Qty. of refrigerant gas R407C	kg	2 x 4.8		2 x 5.1		2 x 5.3		2 x 5.8		2 x 6.1	

(1) Treated air 27°C / 50% R.H. External air 35°C

(2) Treated air 20°C. External air 7 °C / 90% R.H.

- ***ELECTRICAL DATA***

TYPE	M.U.	1	2	3	4	5
Three-phase power supply voltage		400V~50Hz 3N				
Power consumption for cooling	kW	9.5	11.9	15.3	18.1	22.6
Current consumption for cooling	A	17.6	22.2	30.4	35.6	45.3
Starting current	A	35	52	73	98	130
Electrical protection degree	IP	44				

(1) Treated air 27°C / 50% R.H. External air 40°C

- ***LIMITS OF USE***

External air (heating mode with gas heat exchanger)	°C	-15/+6
External air (heating mode with heat pump)	°C	+5/+30
External air (cooling mode)	°C	+15/+40
Internal air (heating and cooling modes)	°C	+5/+35