

# ON / OFF MONOSPLITS COOLING AND HEATING

APPLICATIONS

RESIDENTIAL AND COMMERCIAL

R 410 A

Wall-mounted units:  
elegance,  
aesthetic,  
purity

- 4 sizes
- 5 models
- From 2.65 to 8 kW
- R 410 A
- A Class



WALL-MOUNTED



 **Technibel**  
Climatisation

UNE AVANCE DANS L'AIR DU TEMPS

Direct expansion

# ON/OFF

## Cooling and heating splits

Wall-mounted

CSMRF / CSMPF-R

136

# ON / OFF WALL-MOUNTED SPLIT UNITS

R 410 A



## CSMRF-R CSMPF-R COOLING AND HEATING

- > New design
- > A class
- > Quiet and user friendliness
- > GRF 78/98/128 :  
very compact outdoor units



- Infrared remote control with 24 H digital timer and 4-addressing possibility
- Temperature sensor enclosed in the indoor unit
- Temperature sensor enclosed in the remote control
- Automatic changeover between Heating and Cooling functions to maintain selected temperature
- "I Feel" feature, granting the best comfort conditions
- Dry function for dehumidification without cooling
- Programmable or automatic 3-speed fan
- Night setback program
- Special system when heating mode is starting and during defrosting cycle to avoid cool air emission in the room
- Usable also without remote control
- Horizontal flaps with automatic swinging or programmable on a fixed position (six fixed positions)
- Adjustable vertical flaps
- Washable filters
- Automatic restart in case of power cut
- Electronic protection of the indoor units: anti-freeze
- Electronic protection against over-pressures
- Condensate discharge right or left to make easier the installation
- Service contact for on/off unit operation; alarm contact
- Service contact to make the unit operating or not operating
- Self-diagnostic functions
- High efficiency rotary compressor

### ACCESSORIES

Type	Model	Code
Filter with active charcoal	MRAF 98/128	397021909
	MPAF 188/228	397021910
Outdoor unit wall support	GRF 98/128	K 70 U 001 T
	GRF 188/228	K 60 U 035 T



MRAF

MPAF



GRF 98/128 R

GRF 188/228 R

## COOLING AND HEATING

Set		CSMRF 98 R 5	CSMRF 128 R 5	CSMPF 188 R 5	CSMPF 228 R 5/7
Indoor unit	230/1/50	MRAF 98 R 5 T	MRAF 128 R 5 T	MPAF 188 R 5 T	MPAF 228 R 5 T
Outdoor unit	230/1/50 or 400/3N/50	GRF 98 R 5 T	GRF 128 R 5 T	GRF 188 R 5 T	GRF 228 R 5 T GRF 228 R 7 T
Cooling capacity (kW)	HS	2.65	3.4	5.00	6.60/6.80*
Input power in cooling mode (kW)	HS	0.77	1.06	1.55	2.05/2.10*
Heating capacity (kW)	HS	<b>3.00</b>	<b>3.7</b>	<b>5.80</b>	7.80/8.00*
Input power in heating mode (kW)	HS	0.79	1.025	1.52	2.15/2.20*
Energy class, in cooling/ in heating		A / A	A / A	A / A	A / A
Annual energy consumption in cooling - 500 h (kW/h)		385	530	775	1 025/1 050*
EER / COP		3.44 - 3.80	3.21 - 3.61	3.23 - 3.82	3.22/3.24* - 3.63/3.64*
Internal air flow (m <sup>3</sup> /s-m <sup>3</sup> /h)	LS	0.103 - 370	0.108 - 390	0.161 - 580	0.161 - 580
	MS	0.111 - 400	0.119 - 430	0.197 - 710	0.197 - 710
	HS	0.125 - 450	0.131 - 470	0.244 - 880	0.244 - 880
Running current (A)	cooling	3.50	5.40	7.00	9.20/4.10*
	heating	3.60	5.20	6.70	9.50/4.30*
Dehumidification (l/h)	HS	1.2	1.5	1.5	2.0
Deflection	horizontal	manual	manual	manual	manual
	vertical	auto	auto	auto	auto
Refrigerant type		R 410 A	R 410 A	R 410 A	R 410 A
Ø Refrigerant connections FLARE (inches)		1/4 - 3/8	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8
External Ø of condensate drain pipe (mm)		18	18	18	18
Standard/max. distance between units (m)		7.5/15	7.5/15	10/20	12.5/30
Refrigerant additional charge (g/m)		20	20	20	25
Max. height difference between units (m)		7	7	15	15
Sound power level (dBA)	indoors SLS/MS/HS	32 / 41 / 45 / 50	32 / 41 / 45 / 50	- / 47 / 52 / 55	- / 47 / 52 / 58
	condenser	57	60	63	67
Sound pressure level (dBA)	at 2 m indoor SLS/MS/HS	23 / 32 / 36 / 41	23 / 32 / 36 / 41	- / 38 / 43 / 46	- / 38 / 43 / 49
	4 m from condenser	37	40	43	47
Indoor unit dimensions (height x width x depth) (mm)		270 x 805 x 214	270 x 805 x 214	285 x 995 x 240	285 x 995 x 240
Outdoor unit dimensions (height x width x depth) (mm)		540 x 700 x 265	540 x 700 x 265	630 x 830 x 305	735 x 940 x 340
Weight I.U. / O.U. (kg)		8/35	8/35	12/57	12/71

\*1 phase/ 3 phase

The pressure levels here indicated are in compliance with the European standard EN 12102

## OPERATING LIMITS

COOLING	maximum	T indoor air	32°C (DB) / 23°C (WB)	HEATING	maximum	T indoor air	27° C (DB)
		T outdoor air	43°C (DB)			T outdoor air	24°C (DB) / 18°C (WB)
	minimum	T indoor air	19°C (DB) / 14°C (WB)	minimum	T indoor air	16°C (DB)	
		T outdoor air	19°C (DB)		T outdoor air	-8°C (DB) / -9°C (WB)	