

► Chilled Water Wall Mounted Units

XLM-OG 7, 9 and 18



Technical Brochure
TM XLMOG-A.1GB
Date : April 2004
Supersedes : None

Airwell

Design Features

Introduction

The chilled water wall mounted units offer several advantages for air-conditioning applications in residential and small service sectors :

- Very compact line,
- Esthetic that blends in with the decor,
- Reduced noise level,
- Infrared remote control with liquid crystal display (for 2-pipe version without control valve),
- Front grille easily removable for cleaning,
- Discharge diffuser manually adjustable.

These units are available in 3 versions :

- 2-pipe version with infrared remote control but without control valve,
- 2-pipe version with thermostat and with or without control valve,
- 2-pipe/2-wire version with thermostat and control valve.

All the chilled water wall mounted units have been designed for a great ease of maintenance thanks to the removable front grille allowing a full access to internal components.

Coil

Consists of $\varnothing 5/16''$ copper tubes and aluminium louvered fins with hydrophilic coating.

Filter

Synthetic cleanable air filter accessible after opening the front grille.

Ventilation

Tangential wheel consists of fan fins aligned to obtain a perfect corkscrew profile, enabling a greater air volume to be treated with a minimum noise level.

Single phase motor, direct drive type, provided with 3 ventilation speeds and equipped with internal thermal protection.

Supply voltage : 230 V/1 ph/50 Hz + Ground.

Options available

Electric heater for models 7BE and 18BE

Composed of heating elements located inside the tubes of heat exchanger and is thermally protected against abnormal rises in temperature by a manually reset thermostat.

Supply voltage : 230 V/1 ph/50 Hz + Ground.

Control valve

Motorized 3-way valve (factory installed option).

Control

- CTIVC (kit) for 2-pipe version without control valve,



- TAE 20 + SEH (kit) for 2-pipe version with control valve and 2-pipe/2-wire version with control valve,



- Infrared remote control with liquid crystal display for 2-pipe version without control valve.



Technical Data

| Models | | 7 BE | 7 | 9 | 18 BE | 18 |
|-----------------------------------|-------------------|----------------------|-------|-------|------------------|-------|
| Nominal cooling capacity (1) | W | 1420 | 1800 | 2100 | 2940 | 3660 |
| Nominal heating capacity (2) | W | 1990 | 2520 | 3070 | 3905 | 4430 |
| Air volume | | | | | | |
| High speed | m ³ /h | 345 | 345 | 435 | 873 | 873 |
| Medium speed | m ³ /h | 292 | 292 | 400 | 753 | 753 |
| Low speed | m ³ /h | 255 | 255 | 333 | 603 | 603 |
| Nominal power supply | | 230 V / 1 ph / 50 Hz | | | | |
| Absorbed power | | | | | | |
| Fan | W | 26 | 20 | 26 | 50 | 50 |
| Water connections (Gas male type) | inch | Ø1/2" | Ø1/2" | Ø1/2" | Ø3/4" | Ø3/4" |
| Condensate outlet | mm | Ø13 | Ø13 | Ø13 | Ø13 | Ø13 |
| Dimensions | | | | | | |
| L x D x H | mm | 815 x 160 x 270 | | | 1115 x 195 x 330 | |
| Weight | kg | 8 | 8 | 9.5 | 14 | |

(1) Nominal conditions : Air : 27 °C/19 °C (High speed nominal air volume) - Water : 7 °C/12 °C.

(2) Nominal conditions : Air : 20 °C (High speed nominal air volume) - Water : 50 °C/40 °C.

Electrical Data

| Models | | 7 BE | 7 | 9 | 18 BE | 18 |
|--------------------------|-----------------|---------|---------|---------|---------|---------|
| Nominal current | A | 4.40 | 0.08 | 0.09 | 7.12 | 0.2 |
| Maximum current | A | 5 | 0.12 | 0.135 | 8.65 | 0.27 |
| Fuse rating aM | A | 6 | 1 | 1 | 10 | 1 |
| Fuse rating ASE/VDE | A | 6 | 2 | 2 | 10 | 2 |
| Cable section | mm ² | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 | 3 x 1.5 |
| Electric heater capacity | W | 1050 | - | - | 1600 | - |

Entering Water Temperature Limit

| | Minimum (°C) | Maximum (°C) |
|-------------|--------------|--------------|
| Temperature | 5 | 50 |

Cooling Capacities

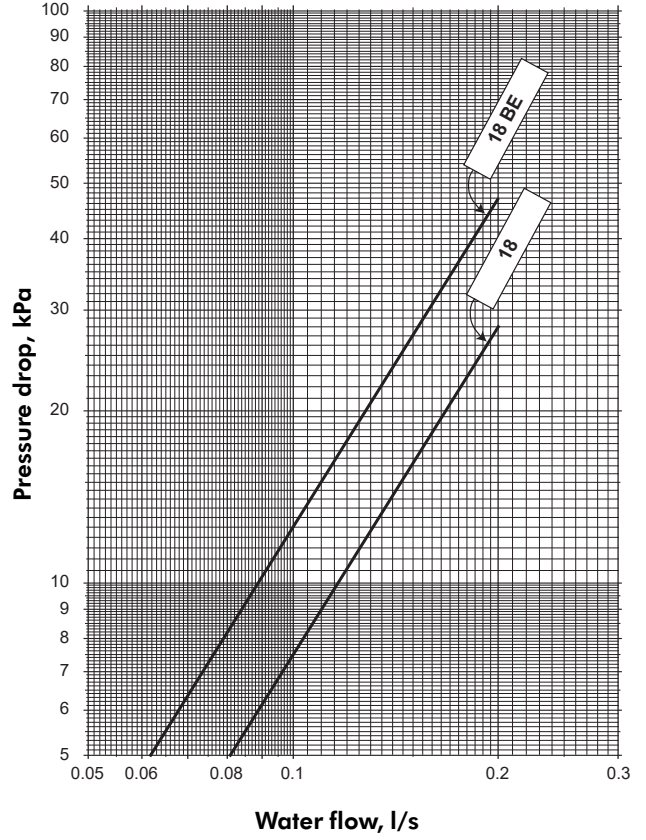
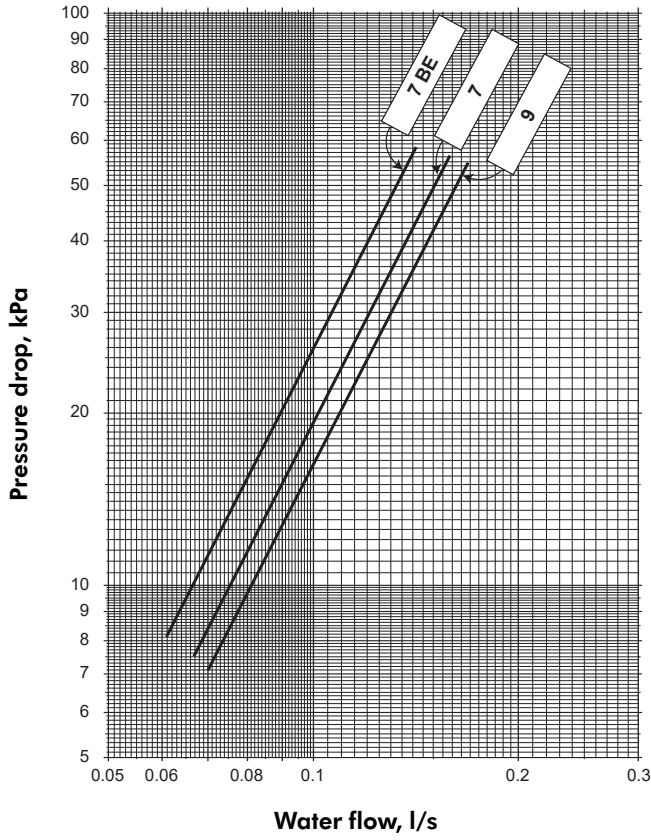
| Models | | 7 BE | | | 7 | | | 9 | | | 18 BE | | | 18 | | |
|--------------|--------------------------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|
| Water in/out | Entering air temperature | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | |
| | | LS | MS | HS | LS | MS | HS | LS | MS | HS | LS | MS | HS | LS | MS | HS |
| | | 255 | 292 | 345 | 255 | 292 | 345 | 333 | 400 | 435 | 603 | 753 | 873 | 603 | 753 | 873 |
| 6 / 11 °C | 27°C Total cap. kW | 1.30 | 1.49 | 1.58 | 1.57 | 1.76 | 2.01 | 1.89 | 2.19 | 2.34 | 2.62 | 2.09 | 3.33 | 3.10 | 3.75 | 4.12 |
| | 47% Sens. cap. kW | 0.98 | 1.13 | 1.21 | 1.18 | 1.33 | 1.54 | 1.44 | 1.68 | 1.82 | 1.96 | 2.29 | 2.48 | 2.38 | 2.88 | 3.28 |
| | 25°C Total cap. kW | 1.12 | 1.29 | 1.37 | 0.98 | 1.44 | 1.65 | 1.54 | 1.80 | 1.93 | 2.13 | 2.52 | 2.72 | 2.55 | 3.09 | 3.39 |
| | 50% Sens. cap. kW | 0.85 | 1.00 | 1.06 | 0.86 | 1.17 | 1.35 | 1.26 | 1.48 | 1.60 | 1.68 | 1.96 | 2.13 | 2.05 | 2.49 | 2.85 |
| | 23°C Total cap. kW | 0.72 | 0.80 | 0.83 | 0.83 | 0.89 | 0.97 | 0.92 | 1.44 | 1.54 | 1.64 | 1.84 | 2.00 | 2.02 | 2.33 | 2.56 |
| | 50% Sens. cap. kW | 0.67 | 0.77 | 0.80 | 0.78 | 0.87 | 0.96 | 0.91 | 1.26 | 1.36 | 1.47 | 1.67 | 1.82 | 1.83 | 2.16 | 2.49 |
| 7 / 12 °C | 27°C Total cap. kW | 1.16 | 1.34 | 1.42 | 1.40 | 1.58 | 1.80 | 1.68 | 1.96 | 2.10 | 2.31 | 2.72 | 2.94 | 2.75 | 3.34 | 3.66 |
| | 47% Sens. cap. kW | 0.92 | 1.06 | 1.13 | 1.11 | 1.26 | 1.44 | 1.35 | 1.59 | 1.71 | 1.82 | 2.13 | 2.31 | 2.23 | 2.70 | 3.09 |
| | 25°C Total cap. kW | 0.80 | 1.13 | 1.21 | 0.89 | 0.97 | 1.52 | 1.37 | 1.61 | 1.73 | 1.84 | 2.18 | 2.36 | 2.24 | 2.71 | 2.98 |
| | 50% Sens. cap. kW | 0.71 | 0.92 | 0.98 | 0.82 | 0.91 | 1.24 | 1.16 | 1.37 | 1.47 | 1.55 | 1.81 | 1.98 | 1.92 | 2.32 | 2.67 |
| | 23°C Total cap. kW | 0.78 | 1.17 | 1.25 | 0.75 | 0.81 | 0.89 | 0.84 | 0.93 | 1.37 | 1.48 | 1.66 | 1.75 | 1.83 | 2.10 | 2.26 |
| | 50% Sens. cap. kW | 0.65 | 1.00 | 1.06 | 0.74 | 0.80 | 0.89 | 0.84 | 0.93 | 1.26 | 1.40 | 1.59 | 1.72 | 1.74 | 2.06 | 2.26 |
| 8 / 13 °C | 27°C Total cap. kW | 0.72 | 0.81 | 1.04 | 0.96 | 1.40 | 1.61 | 1.50 | 1.75 | 1.88 | 2.02 | 2.39 | 2.57 | 2.44 | 2.96 | 3.24 |
| | 47% Sens. cap. kW | 0.67 | 0.76 | 0.91 | 0.88 | 1.17 | 1.34 | 1.25 | 1.47 | 1.59 | 1.70 | 1.98 | 2.16 | 2.10 | 2.54 | 2.92 |
| | 25°C Total cap. kW | 0.58 | 0.66 | 0.69 | 0.81 | 0.88 | 0.96 | 0.91 | 1.44 | 1.54 | 1.64 | 1.89 | 2.04 | 2.02 | 2.38 | 2.61 |
| | 50% Sens. cap. kW | 0.58 | 0.66 | 0.69 | 0.79 | 0.87 | 0.96 | 0.91 | 1.27 | 1.39 | 1.47 | 1.69 | 1.85 | 1.83 | 2.18 | 2.52 |
| | 23°C Total cap. kW | 0.69 | 0.77 | 0.98 | 0.68 | 0.74 | 0.81 | 0.77 | 0.86 | 0.90 | 1.34 | 1.51 | 1.60 | 1.65 | 1.91 | 2.04 |
| | 50% Sens. cap. kW | 0.68 | 0.77 | 0.92 | 0.68 | 0.74 | 0.81 | 0.77 | 0.86 | 0.90 | 1.34 | 1.51 | 1.60 | 1.65 | 1.91 | 2.04 |
| 10 / 15 °C | 27°C Total cap. kW | 0.58 | 0.66 | 0.69 | 0.80 | 0.87 | 1.29 | 1.20 | 1.41 | 1.54 | 1.59 | 1.85 | 2.00 | 1.95 | 2.32 | 2.55 |
| | 47% Sens. cap. kW | 0.58 | 0.66 | 0.69 | 0.79 | 0.87 | 1.18 | 1.09 | 1.30 | 1.40 | 1.53 | 1.77 | 1.93 | 1.90 | 2.28 | 2.55 |
| | 25°C Total cap. kW | 0.55 | 0.60 | 0.63 | 0.68 | 0.74 | 0.81 | 0.77 | 0.86 | 1.19 | 1.34 | 1.51 | 1.59 | 1.65 | 1.90 | 2.04 |
| | 50% Sens. cap. kW | 0.55 | 0.60 | 0.63 | 0.68 | 0.74 | 0.81 | 0.77 | 0.86 | 1.18 | 1.34 | 1.51 | 1.59 | 1.65 | 1.90 | 2.04 |
| | 23°C Total cap. kW | 0.48 | 0.54 | 0.57 | 0.57 | 0.61 | 0.67 | 0.64 | 0.70 | 0.73 | 1.10 | 1.24 | 1.32 | 1.36 | 1.57 | 1.64 |
| | 50% Sens. cap. kW | 0.48 | 0.54 | 0.57 | 0.57 | 0.61 | 0.67 | 0.64 | 0.70 | 0.73 | 1.10 | 1.24 | 1.32 | 1.36 | 1.57 | 1.64 |

Heating Capacities

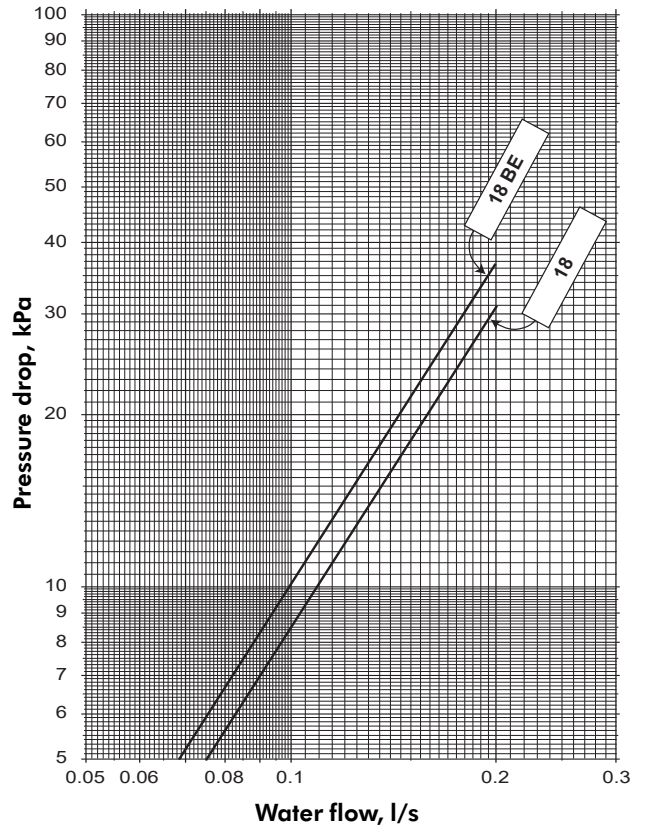
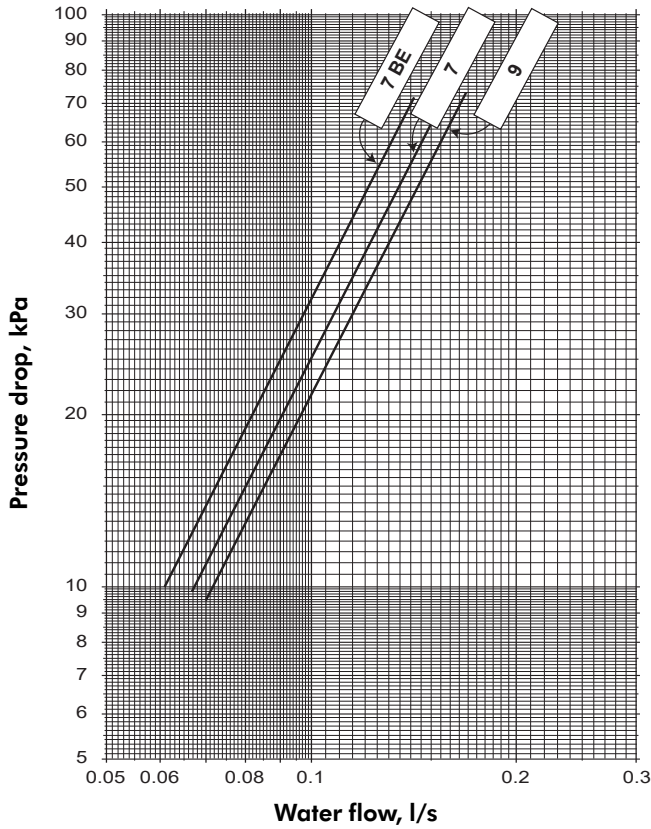
| Models | | 7 BE | | | 7 | | | 9 | | | 18 BE | | | 18 | | |
|--------------|--------------------------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|
| Water in/out | Entering air temperature | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | | Air volume (m ³ /h) | | |
| | | LS | MS | HS | LS | MS | HS | LS | MS | HS | LS | MS | HS | LS | MS | HS |
| | | 255 | 292 | 345 | 255 | 292 | 345 | 333 | 400 | 435 | 658 | 774 | 857 | 658 | 774 | 857 |
| 40 / 30 °C | 19°C Heat. cap. kW | 0.87 | 0.95 | 0.99 | 0.93 | 1.01 | 1.10 | 1.08 | 1.60 | 1.74 | 1.68 | 1.93 | 2.04 | 2.06 | 2.24 | 2.35 |
| | 20°C Heat. cap. kW | 0.81 | 0.88 | 0.92 | 0.86 | 0.93 | 1.00 | 1.00 | 1.10 | 1.15 | 1.57 | 1.79 | 1.86 | 1.92 | 2.08 | 2.18 |
| | 21°C Heat. cap. kW | 0.74 | 0.82 | 0.85 | 0.79 | 0.86 | 0.93 | 0.91 | 1.00 | 1.05 | 1.44 | 1.65 | 1.72 | 1.78 | 1.92 | 2.01 |
| 45 / 35 °C | 19°C Heat. cap. kW | 1.37 | 1.55 | 1.63 | 1.59 | 1.80 | 2.06 | 1.99 | 2.32 | 2.50 | 2.45 | 2.93 | 3.11 | 2.96 | 3.29 | 3.52 |
| | 20°C Heat. cap. kW | 1.28 | 1.46 | 1.53 | 1.49 | 1.68 | 1.93 | 1.87 | 2.19 | 2.36 | 2.30 | 2.75 | 2.92 | 2.78 | 3.09 | 3.30 |
| | 21°C Heat. cap. kW | 1.21 | 1.37 | 1.45 | 1.00 | 1.58 | 1.81 | 1.76 | 2.05 | 2.21 | 2.14 | 2.57 | 2.72 | 2.59 | 2.88 | 3.08 |
| 50 / 40 °C | 19°C Heat. cap. kW | 1.74 | 1.98 | 2.08 | 2.05 | 2.30 | 2.63 | 2.55 | 2.98 | 3.21 | 3.24 | 3.86 | 4.09 | 3.90 | 4.34 | 4.64 |
| | 20°C Heat. cap. kW | 1.67 | 1.88 | 1.99 | 1.95 | 2.20 | 2.52 | 2.44 | 2.85 | 3.07 | 3.09 | 3.68 | 3.91 | 3.72 | 4.14 | 4.43 |
| | 21°C Heat. cap. kW | 1.59 | 1.80 | 1.90 | 1.87 | 2.10 | 2.40 | 2.33 | 2.72 | 2.93 | 2.94 | 3.51 | 3.72 | 3.54 | 3.94 | 4.22 |

Water Pressure Drops

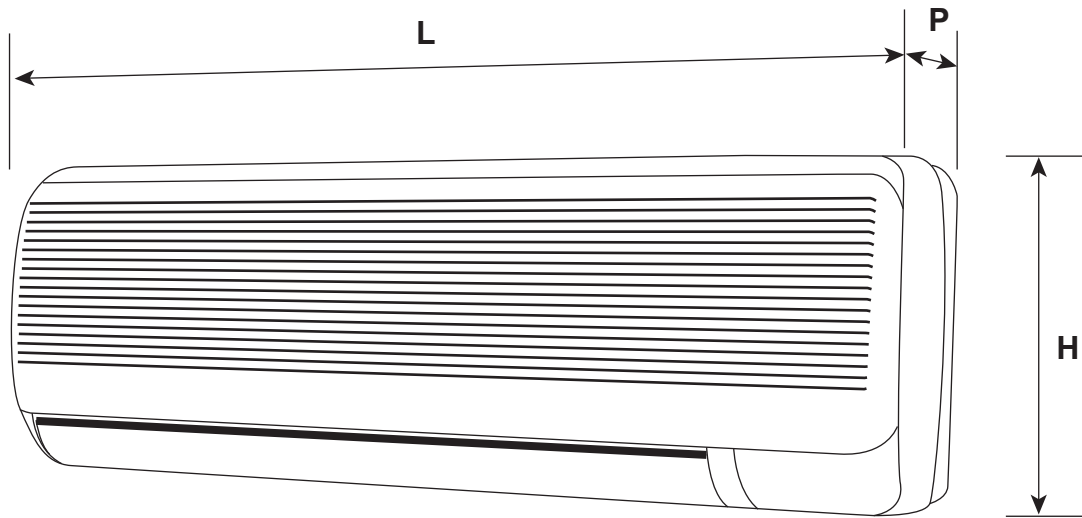
Without control valve



With control valve



Dimensional Data



| Sizes | L | P | H |
|-------------|------|-----|-----|
| 7BE | 815 | 160 | 270 |
| 7 | 815 | 160 | 270 |
| 9 | 815 | 160 | 270 |
| 18BE | 1115 | 195 | 330 |
| 18 | 1115 | 195 | 330 |

Dimensions in mm.

Notes

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