

XLM-OG

Chilled Water Wall Mounted Units

Models 7, 9 and 18



Design Features

Presentation

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 4 versions :

- 2-pipe version,
- Reversible 2-pipe version,
- 2-pipe/2-wire version (models 7BE & 18BE),
- Reversible 2-pipe version + extra electric heating (models 7BE & 18BE).

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 Ø 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 heaters 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 valves

Motorized 2-way or 3-way valve (factory installed option).

Controls

- TRM-VP (kit) for version with control valve,
- TRM-FA (kit) for version with or without control valve.

TRM-FA TRM-VP



- TAE 20 + SEH (kit) for version with control valve and with or without electric heating.

TAE 20



- Infrared remote control with liquid crystal display.

IR remote control



- Aqu@Simp electronic controller for version with or without control valve.

Aqu@Simp



- Aqu@Net for version with or without control valve and with or without electric heating.

Aqu@Net



RCL remote control

FCC controller

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 | m³/h | 345 | 345 | 435 | 873 | 873 |
| Medium speed | m³/h | 292 | 292 | 400 | 753 | 753 |
| Low speed | m³/h | 255 | 255 | 333 | 603 | 603 |
| Nominal power supply | | 230 V / 1 ph / 50 Hz | | | | |
| ABSORBED POWER | | | | | | |
| Fan | W | 17 | 17 | 38 | 45 | 45 |
| 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 P x H | mm | 815 x 160 x 270 | | | 1115 x 195 x 330 | |
| Weight | kg | 8 | 8 | 9.5 | 14 | 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 | 5.00 | 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 | mm² | 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 | - |

Sound Power Levels

| MODELS | | 7 | | | 9 | | | 18 | | |
|--------------|-----|-----------|------------|----|-----------|------------|----|-----------|------------|----|
| | | Lw global | Lp* global | NR | Lw global | Lp* global | NR | Lw global | Lp* global | NR |
| High speed | dBA | 46 | 38 | 35 | 50 | 42 | 40 | 58 | 50 | 47 |
| Medium speed | dBA | 43 | 35 | 32 | 48 | 40 | 37 | 53 | 45 | 41 |
| Low speed | dBA | 41 | 33 | 29 | 45 | 37 | 34 | 51 | 43 | 39 |

(*) The sound pressure levels Lp are based on (NR) characteristic of a room having volume of 100 m³ with reverberation time of 0.5 seconds.

Entering Water Temperature Limit

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

Cooling Capacities

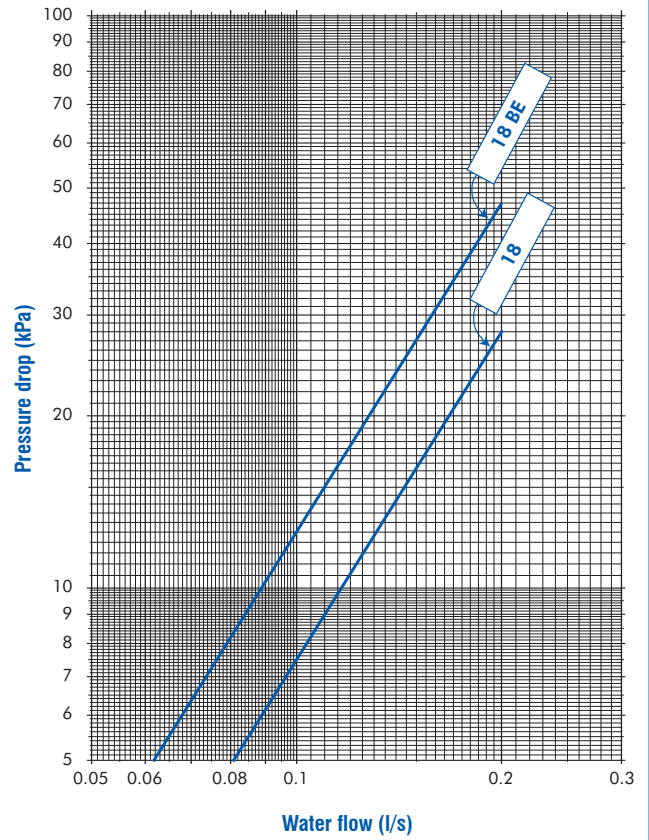
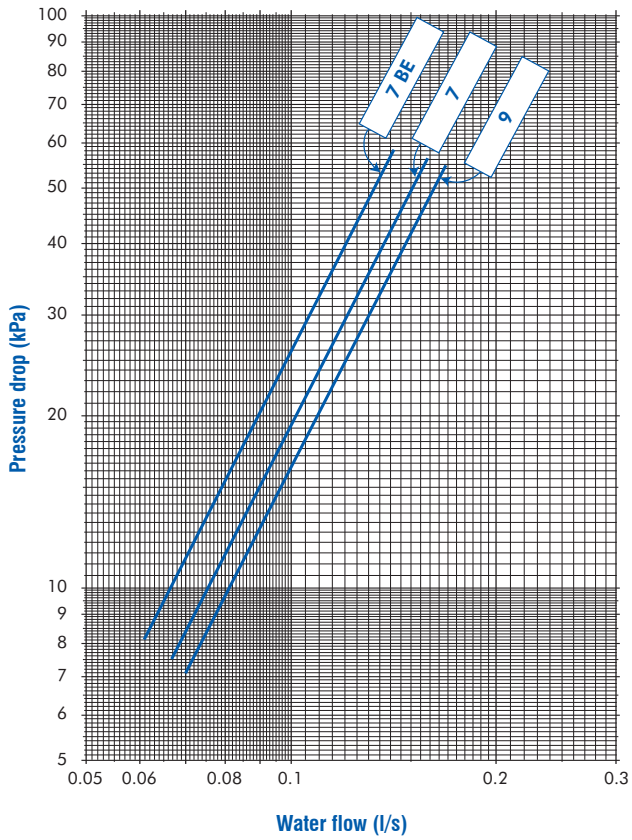
| Models | | | | 7 BE | | | 7 | | | 9 | | | 18 BE | | | 18 | | |
|--------------|--------------------------|---------------|----|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| Water in/out | Entering air temperature | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/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 | 1.300 | 1.490 | 1.580 | 1.570 | 1.760 | 2.010 | 1.890 | 2.190 | 2.340 | 2.620 | 2.086 | 3.332 | 3.095 | 3.750 | 4.116 |
| | 47% | Sensible cap. | kW | 0.980 | 1.130 | 1.210 | 1.180 | 1.330 | 1.540 | 1.440 | 1.680 | 1.820 | 1.956 | 2.287 | 2.481 | 2.379 | 2.876 | 3.284 |
| | 25°C | Total cap. | kW | 1.120 | 1.290 | 1.370 | 0.980 | 1.440 | 1.650 | 1.540 | 1.800 | 1.930 | 2.127 | 2.516 | 2.719 | 2.548 | 3.094 | 3.392 |
| | 50% | Sensible cap. | kW | 0.850 | 1.000 | 1.060 | 0.860 | 1.170 | 1.350 | 1.260 | 1.480 | 1.600 | 1.675 | 1.958 | 2.133 | 2.054 | 2.488 | 2.845 |
| | 23°C | Total cap. | kW | 0.720 | 0.800 | 0.830 | 0.830 | 0.890 | 0.970 | 0.920 | 1.440 | 1.540 | 1.643 | 1.840 | 1.996 | 2.021 | 2.331 | 2.560 |
| | 50% | Sensible cap. | kW | 0.670 | 0.770 | 0.800 | 0.780 | 0.870 | 0.960 | 0.910 | 1.260 | 1.360 | 1.471 | 1.668 | 1.824 | 1.830 | 2.162 | 2.490 |
| 7 / 12 °C | 27°C | Total cap. | kW | 1.160 | 1.340 | 1.420 | 1.400 | 1.580 | 1.800 | 1.680 | 1.960 | 2.100 | 2.309 | 2.721 | 2.936 | 2.754 | 3.340 | 3.660 |
| | 47% | Sensible cap. | kW | 0.920 | 1.060 | 1.130 | 1.110 | 1.260 | 1.440 | 1.350 | 1.590 | 1.710 | 1.823 | 2.126 | 2.313 | 2.231 | 2.698 | 3.090 |
| | 25°C | Total cap. | kW | 0.800 | 1.130 | 1.210 | 0.890 | 0.970 | 1.520 | 1.370 | 1.610 | 1.730 | 1.841 | 2.181 | 2.358 | 2.235 | 2.714 | 2.977 |
| | 50% | Sensible cap. | kW | 0.710 | 0.920 | 0.980 | 0.820 | 0.910 | 1.240 | 1.160 | 1.370 | 1.470 | 1.554 | 1.813 | 1.978 | 1.923 | 2.323 | 2.674 |
| | 23°C | Total cap. | kW | 0.780 | 1.170 | 1.250 | 0.750 | 0.810 | 0.890 | 0.840 | 0.930 | 1.370 | 1.484 | 1.663 | 1.753 | 1.826 | 2.099 | 2.255 |
| | 50% | Sensible cap. | kW | 0.650 | 1.000 | 1.060 | 0.740 | 0.800 | 0.890 | 0.840 | 0.930 | 1.260 | 1.401 | 1.593 | 1.720 | 1.740 | 2.061 | 2.255 |
| 8 / 13 °C | 27°C | Total cap. | kW | 0.720 | 0.810 | 1.040 | 0.960 | 1.400 | 1.610 | 1.500 | 1.750 | 1.880 | 2.023 | 2.386 | 2.574 | 2.437 | 2.957 | 3.242 |
| | 47% | Sensible cap. | kW | 0.670 | 0.760 | 0.910 | 0.880 | 1.170 | 1.340 | 1.250 | 1.470 | 1.590 | 1.703 | 1.982 | 2.159 | 2.098 | 2.539 | 2.921 |
| | 25°C | Total cap. | kW | 0.580 | 0.660 | 0.690 | 0.810 | 0.880 | 0.960 | 0.910 | 1.440 | 1.540 | 1.640 | 1.890 | 2.044 | 2.017 | 2.376 | 2.609 |
| | 50% | Sensible cap. | kW | 0.580 | 0.660 | 0.690 | 0.790 | 0.870 | 0.960 | 0.910 | 1.270 | 1.390 | 1.470 | 1.693 | 1.847 | 1.829 | 2.184 | 2.523 |
| | 23°C | Total cap. | kW | 0.690 | 0.770 | 0.980 | 0.680 | 0.740 | 0.810 | 0.770 | 0.860 | 0.900 | 1.341 | 1.509 | 1.595 | 1.650 | 1.906 | 2.044 |
| | 50% | Sensible cap. | kW | 0.680 | 0.770 | 0.920 | 0.680 | 0.740 | 0.810 | 0.770 | 0.860 | 0.900 | 1.341 | 1.509 | 1.595 | 1.650 | 1.906 | 2.044 |
| 10 / 15 °C | 27°C | Total cap. | kW | 0.580 | 0.660 | 0.690 | 0.800 | 0.870 | 1.290 | 1.200 | 1.410 | 1.540 | 1.585 | 1.846 | 1.997 | 1.949 | 2.321 | 2.552 |
| | 47% | Sensible cap. | kW | 0.580 | 0.660 | 0.690 | 0.790 | 0.870 | 1.180 | 1.090 | 1.300 | 1.400 | 1.528 | 1.766 | 1.932 | 1.903 | 2.282 | 2.552 |
| | 25°C | Total cap. | kW | 0.550 | 0.600 | 0.630 | 0.680 | 0.740 | 0.810 | 0.770 | 0.860 | 1.190 | 1.338 | 1.507 | 1.594 | 1.645 | 1.902 | 2.041 |
| | 50% | Sensible cap. | kW | 0.550 | 0.600 | 0.630 | 0.680 | 0.740 | 0.810 | 0.770 | 0.860 | 1.180 | 1.338 | 1.507 | 1.594 | 1.645 | 1.902 | 2.041 |
| | 23°C | Total cap. | kW | 0.480 | 0.540 | 0.570 | 0.570 | 0.610 | 0.670 | 0.640 | 0.700 | 0.730 | 1.102 | 1.243 | 1.315 | 1.355 | 1.571 | 1.636 |
| | 50% | Sensible cap. | kW | 0.480 | 0.540 | 0.570 | 0.570 | 0.610 | 0.670 | 0.640 | 0.700 | 0.730 | 1.102 | 1.243 | 1.315 | 1.355 | 1.571 | 1.636 |

Heating Capacities

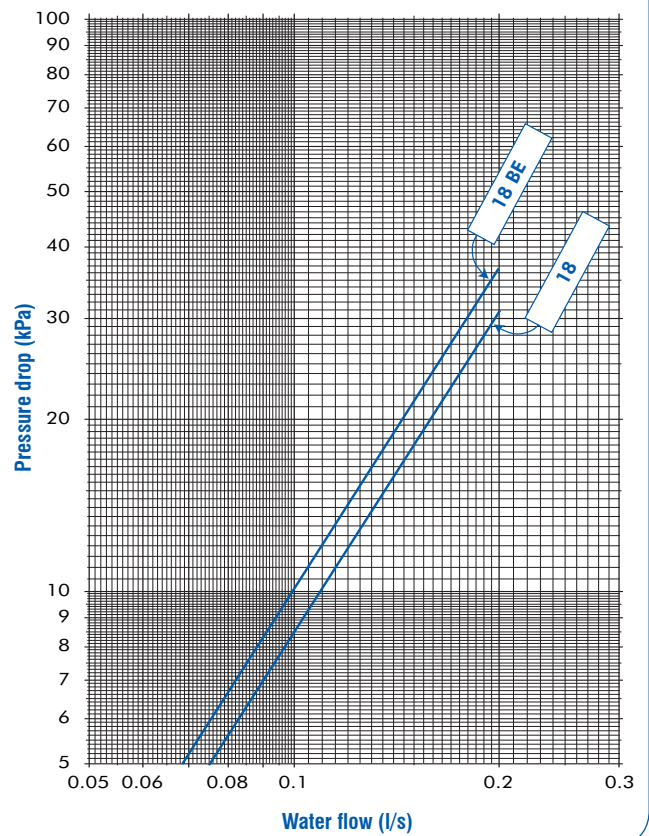
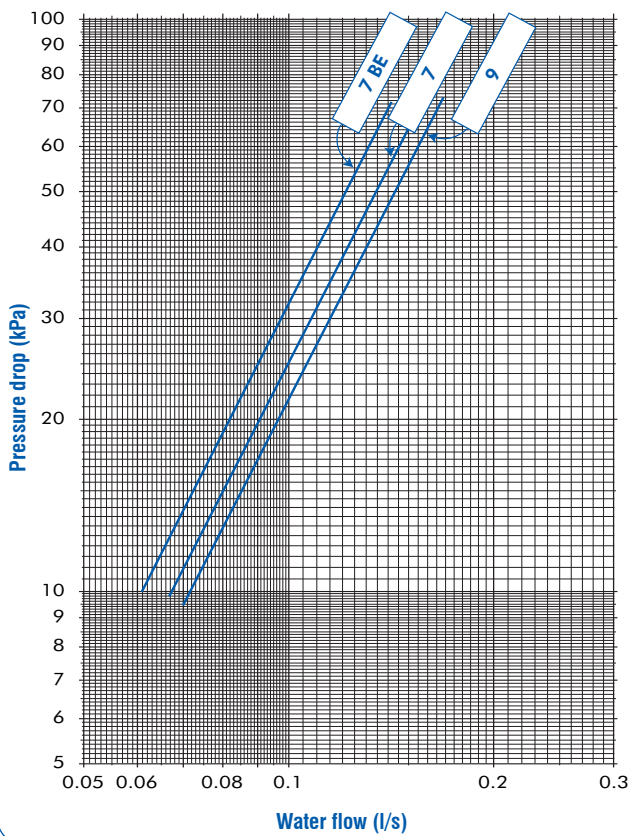
| Models | | | | 7 BE | | | 7 | | | 9 | | | 18 BE | | | 18 | | |
|--------------|--------------------------|--------------|----|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|-----------------|-------|-------|
| Water in/out | Entering air temperature | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/h) | | | Air flow (m³/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 | Heating cap. | kW | 0.870 | 0.950 | 0.990 | 0.930 | 1.010 | 1.100 | 1.080 | 1.600 | 1.740 | 1.684 | 1.925 | 2.041 | 2.062 | 2.236 | 2.348 |
| | 20°C | Heating cap. | kW | 0.810 | 0.880 | 0.920 | 0.860 | 0.930 | 1.000 | 1.000 | 1.100 | 1.150 | 1.565 | 1.787 | 1.863 | 1.922 | 2.077 | 2.179 |
| | 21°C | Heating cap. | kW | 0.740 | 0.820 | 0.850 | 0.790 | 0.860 | 0.930 | 0.910 | 1.000 | 1.050 | 1.444 | 1.648 | 1.718 | 1.777 | 1.918 | 2.010 |
| 45 / 35 °C | 19°C | Heating cap. | kW | 1.370 | 1.550 | 1.630 | 1.590 | 1.800 | 2.060 | 1.990 | 2.320 | 2.500 | 2.452 | 2.933 | 3.111 | 2.958 | 3.289 | 3.518 |
| | 20°C | Heating cap. | kW | 1.280 | 1.460 | 1.530 | 1.490 | 1.680 | 1.930 | 1.870 | 2.190 | 2.360 | 2.296 | 2.752 | 2.919 | 2.776 | 3.086 | 3.297 |
| | 21°C | Heating cap. | kW | 1.210 | 1.370 | 1.450 | 1.000 | 1.580 | 1.810 | 1.760 | 2.050 | 2.210 | 2.142 | 2.568 | 2.724 | 2.589 | 2.879 | 3.076 |
| 50 / 40 °C | 19°C | Heating cap. | kW | 1.740 | 1.980 | 2.080 | 2.050 | 2.300 | 2.630 | 2.550 | 2.980 | 3.210 | 3.239 | 3.856 | 4.091 | 3.896 | 4.340 | 4.642 |
| | 20°C | Heating cap. | kW | 1.670 | 1.880 | 1.990 | 1.950 | 2.200 | 2.520 | 2.440 | 2.850 | 3.070 | 3.091 | 3.683 | 3.905 | 3.719 | 4.141 | 4.431 |
| | 21°C | Heating cap. | kW | 1.590 | 1.800 | 1.900 | 1.870 | 2.100 | 2.400 | 2.330 | 2.720 | 2.930 | 2.942 | 3.505 | 3.719 | 3.541 | 3.940 | 4.216 |

Water Pressure Drops

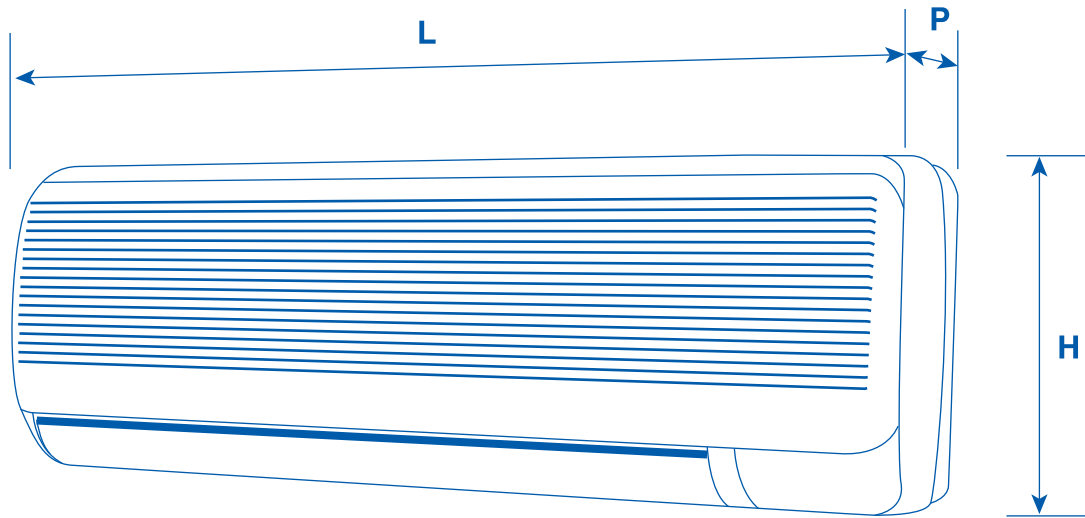
Without control valve



With control valve



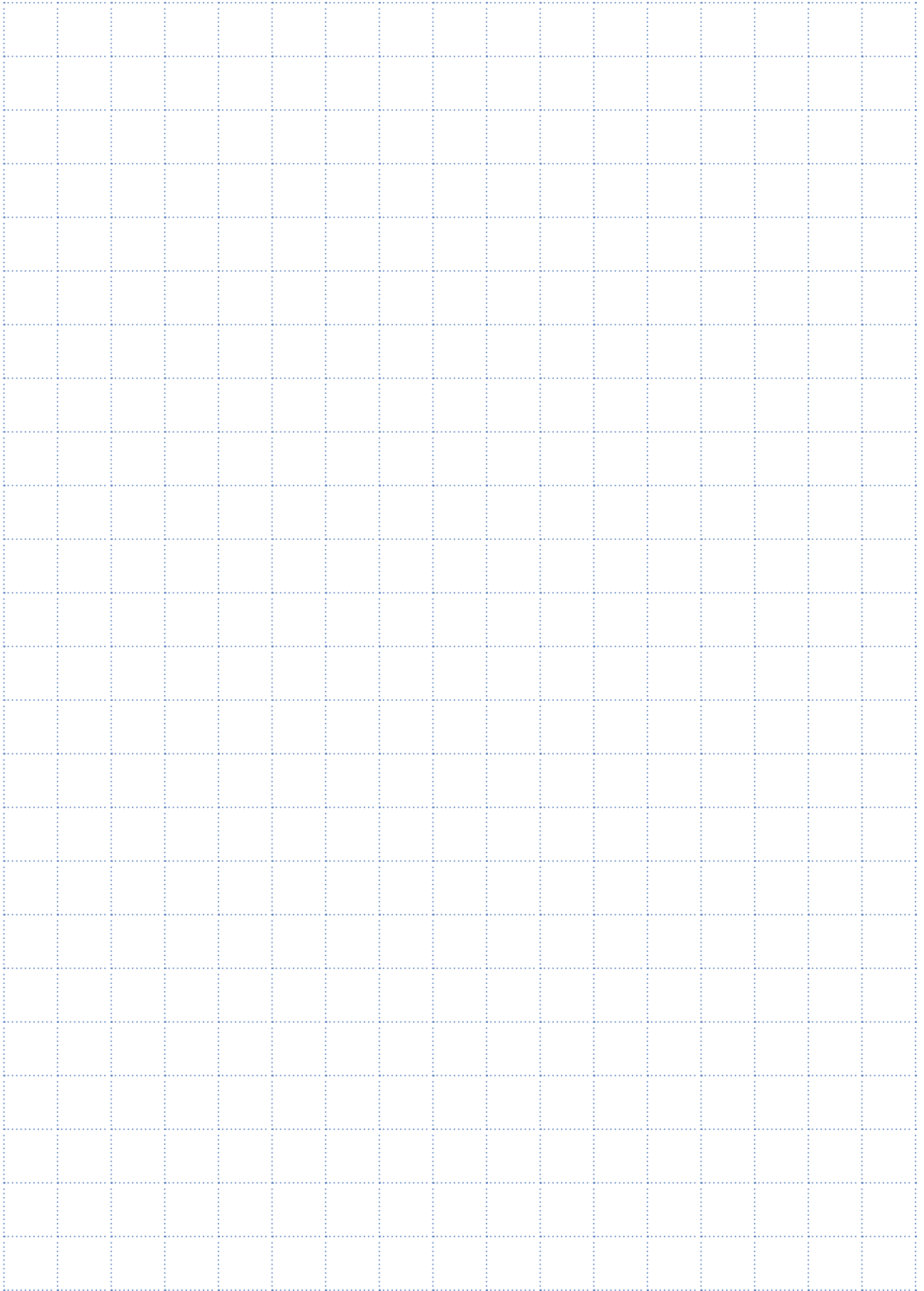
Dimensions



| 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





AIRWELL France SAS
1bis, Avenue du 8 mai 1945
Saint Quentin en Yvelines
78284 GUYANCOURT
France
Tél. +33 (0) 01 39 44 78 00
Fax +33 (0) 01 39 44 65 17

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