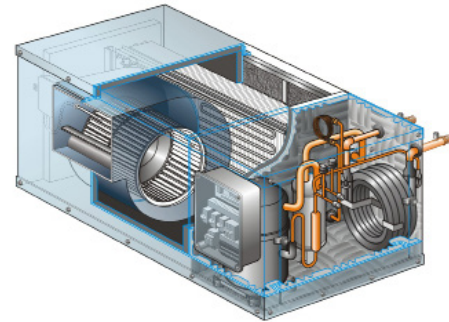


Model WS-43

TECHNICAL DATA

| | | | |
|--|---------|-----------|-----------------|
| Cooling Capacity ¹ | Btu/h | 42500 | |
| | Watt | 12449 | |
| Heating Capacity ² | Btu/h | 49100 | |
| | Watt | 14332 | |
| Power Consumption - Cooling / Heating | Watt | 3569/3813 | |
| C.O.P - Cooling / Heating | | 3.49/3.76 | |
| Operating Current - Cooling / Heating ³ | 1 Phase | Amp | 17/17.3 |
| | 3 Phase | | 7.2/7.5 |
| Power Supply | 1 Phase | V/Ph/Hz | 230V, 1Ph, 50Hz |
| | 3 Phase | | 400V, 3Ph, 50Hz |
| Time Delay Fuse | 1 Phase | Amp | 1x25-C |
| | 3 Phase | | 3x16-C |



GENERAL

| | | | |
|----------------------------------|-------------------------|---------------------------------|----------|
| Air flow (at high speed) | cfm (m ³ /h) | 1500 (2550) | |
| High Fan Speed (No. Speeds) | R.P.M | 900 (3) | |
| Noise Level ⁴ | dBA | 51 | |
| Net Static Pressure ⁵ | mm H ₂ O | 5 | |
| Coil | Face Area | ft ² /m ² | 3.7/0.34 |
| | Rows Deep | | 4 |
| | Fins Spacing | Per Inch | 14 |

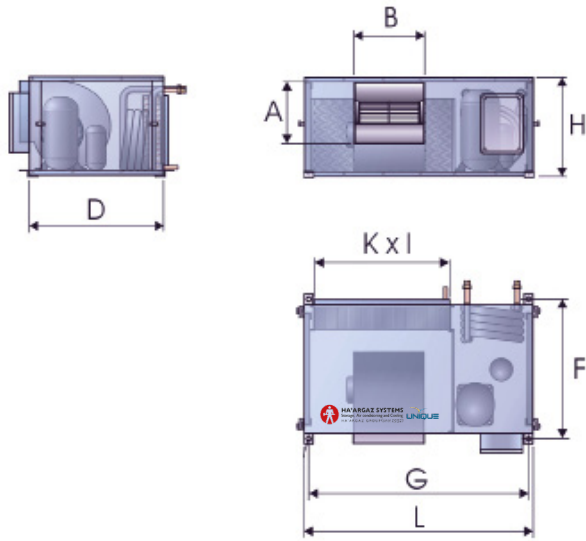
DIMENSIONS

| Model | | Horizontal | Vertical |
|--------------------------|-----------|---------------------|-----------------|
| LxDxH | mm | 1290x600x520 | 880x600x1020 |
| A, B, G, F | mm | 265, 305, 1245, 656 | 265, 305, - , - |
| Return Air Duct - K,I | mm | 720,476 | |
| Condensate Lines - Drain | Φ-mm (in) | 19 (3/4") | |
| Water Inlet/Outlet | Φ in | BSP 1" | |
| Net Weight | kg | 115 | 122 |

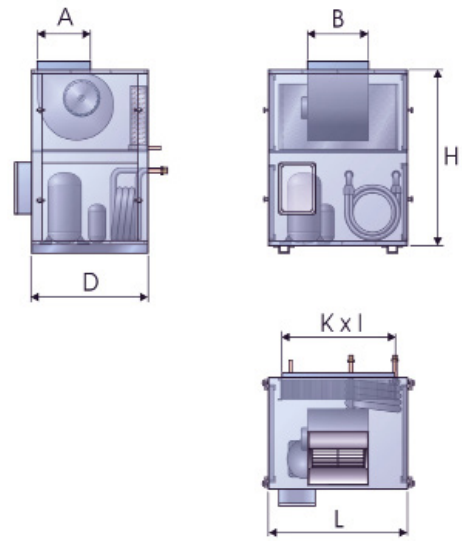
- NOTES:
1. Nominal cooling capacity based on indoor air temp. 27°C DB/19°C WB and entering water temp. 29°C.
 2. Nominal heating capacity based on indoor air temp. 21°C DB and entering water temp. 20°C.
 3. Operating current at heat pump mode, excluding electric heating elements.
 4. Noise level refers to a ducted unit at a distance of 1.5m from the unit.
 5. Net static pressure available at fan discharge at nominal capacity.



HORIZONTAL UNIT



VERTICAL UNIT



PERFORMANCE

| COOLING PERFORMANCE | | | | | | | | |
|----------------------|----|-------------------|------|---------------------|-------------------------------|-------|-------------------|------|
| Entering Water Temp. | | Water Flow Rate | | Water Pressure Drop | Colling Capacity ¹ | | Power Consumption | COP |
| °C | °F | m ³ /h | gpm | m H ₂ O | Watt | Btu/h | Watt | |
| 29 | 85 | 1.8 | 7.9 | 2.2 | 12262 | 41863 | 3528 | 3.48 |
| | | 2.3 | 9.9 | 2.4 | 12449 | 42500 | 3569 | 3.49 |
| | | 2.7 | 11.9 | 2.6 | 12635 | 43138 | 3607 | 3.50 |
| 32 | 90 | 1.8 | 7.9 | 2.2 | 11649 | 39769 | 3720 | 3.13 |
| | | 2.3 | 9.9 | 2.4 | 11826 | 40375 | 3761 | 3.14 |
| | | 2.7 | 11.9 | 2.6 | 12004 | 40981 | 3804 | 3.16 |
| 35 | 95 | 1.8 | 7.9 | 2.2 | 11355 | 38765 | 3909 | 2.90 |
| | | 2.3 | 9.9 | 2.4 | 11528 | 39355 | 3952 | 2.92 |
| | | 2.7 | 11.9 | 2.6 | 11700 | 39945 | 3995 | 2.93 |

| HEATING PERFORMANCE | | | | | | | | |
|----------------------|----|-------------------|-----|---------------------|-------------------------------|-------|-------------------|------|
| Entering Water Temp. | | Water Flow Rate | | Water Pressure Drop | Heating Capacity ¹ | | Power Consumption | COP |
| °C | °F | m ³ /h | gpm | m H ₂ O | Watt | Btu/h | Watt | |
| 12 | 54 | 1.8 | 7.9 | 2.2 | 12403 | 42344 | 3438 | 3.61 |
| | | 2.3 | 9.9 | 2.4 | 12656 | 43208 | 3469 | 3.65 |
| 16 | 61 | 1.8 | 7.9 | 2.2 | 13249 | 45231 | 3605 | 3.68 |
| | | 2.3 | 9.9 | 2.4 | 13519 | 46154 | 3641 | 3.71 |
| 20 | 68 | 1.8 | 7.9 | 2.2 | 14094 | 48118 | 3779 | 3.73 |
| | | 2.3 | 9.9 | 2.4 | 14332 | 49100 | 3813 | 3.76 |
| 24 | 75 | 1.8 | 7.9 | 2.2 | 14799 | 50524 | 3915 | 3.78 |
| | | 2.3 | 9.9 | 2.4 | 15101 | 51555 | 3950 | 3.82 |

NOTES: 1. Air inlet Temperature - Cooling 27°C DB/19°C WB, Heating 21°C DB.

