Air Conditioning | Product Information

MITSUBISHI ELECTRIC

# HP DX 2.0

## Air Curtain System

Power Inverter Heat Pump

Mr.SLIM

Thermoscreens

The **HP DX 2.0 air curtain range** is the latest innovation from the collaboration between Mitsubishi Electric and Thermoscreens.

These R32 / R410A dual refrigerant split air curtains are available as exposed or recessed versions, giving exceptional flexibility for commercial overdoor applications such as retail stores, office and hotel lobbies.

R32

### Key Features & Benefits:

- Helps our customers meet their corporate social responsibility targets by using lower GWP R32 refrigerant
- Lower run costs and carbon emissions achieved with connection to flagship Mr Slim Power Inverter high efficiency outdoor units
- Large / double door openings are supported through twin-split air curtain capability
- Suitable for use with Mr Slim R410A outdoor units


**Air Conditioning** | **Product Information**

# HP DX 2.0
Air Curtain System
Power Inverter Heat Pump

R32

R410A

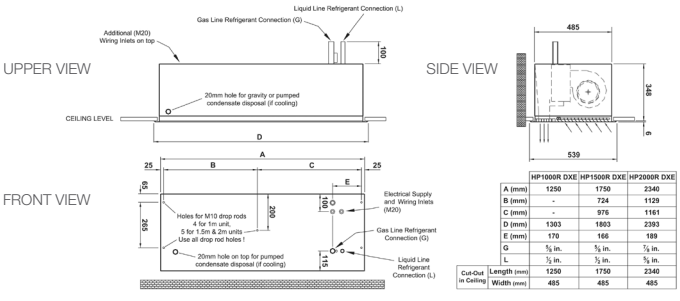
| HP DX 2.0 - RECESSED | | HP1000R DX 2.0 | HP1500R DX 2.0 | HP1500R DX 2.0 | HP2000R DX 2.0 | HP2000R DX 2.0 | HP2000R DX 2.0 |
|---|---|---|---|---|---|---|---|
| CAPACITY (kW) | Heating (nominal) | 8.3 | 13.2 | 13.2 | 15.7 | 15.7 | 21.0 |
| | Cooling (nominal) | 7.4 | 11.8 | 11.8 | 14.0 | 14.0 | 18.7 |
| AIRFLOW MAX (l/s) | | 364 | 575 | 575 | 720 | 720 | 720 |
| SOUND PRESSURE LEVEL AT 3m (dBA) | Lo-Mi-Hi | 47-54-57 | 45-52-56 | 45-52-56 | 47-54-57 | 47-54-57 | 47-54-57 |
| WEIGHT (kg) | | 52 | 75 | 75 | 93 | 93 | 93 |
| DIMENSIONS (mm) (inc. grille) | Width x Depth x Height | 1250 (1303) x 485 (539) x 348 | 1750 (1803) x 485 (539) x 348 | 1750 (1803) x 485 (539) x 348 | 2340 (2393) x 485 (539) x 348 | 2340 (2393) x 485 (539) x 348 | 2340 (2393) x 485 (539) x 348 |
| ELECTRICAL SUPPLY | | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz |
| PHASE | | Single | Single | Single | Single | Single | Single |
| RUNNING CURRENT (A) | | 0.8 | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 |
| MAINS CABLE No. Cores | | 3 | 3 | 3 | 3 | 3 | 3 |
| UNIFORMITY AT OUTLET (%)*1 | | 90 | 92 | 92 | 90 | 90 | 90 |
| MAX MOUNTING HEIGHT (m) | | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |

| HP DX 2.0 - FREE STANDING | | HP1000R DX 2.0 | HP1500R DX 2.0 | HP1500R DX 2.0 | HP2000R DX 2.0 | HP2000R DX 2.0 | HP2000R DX 2.0 |
|---|---|---|---|---|---|---|---|
| CAPACITY (kW) | Heating (nominal) | 8.3 | 13.2 | 13.2 | 15.7 | 15.7 | 21.0 |
| | Cooling (nominal) | 7.4 | 11.8 | 11.8 | 14.0 | 14.0 | 18.7 |
| AIRFLOW MAX (l/s) | | 364 | 575 | 575 | 720 | 720 | 720 |
| SOUND PRESSURE LEVEL AT 3m (dBA) | Lo-Mi-Hi | 47-54-57 | 45-52-56 | 45-52-56 | 47-54-57 | 47-54-57 | 47-54-57 |
| WEIGHT (kg) | | 46 | 67 | 67 | 84 | 84 | 84 |
| DIMENSIONS (mm) | Width x Depth x Height | 1300 x 468 x 306 | 1825 x 468 x 306 | 1825 x 468 x 306 | 2350 x 468 x 306 | 2350 x 468 x 306 | 2350 x 468 x 306 |
| ELECTRICAL SUPPLY | | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz | 220-240V, 50Hz |
| PHASE | | Single | Single | Single | Single | Single | Single |
| RUNNING CURRENT (A) | | 0.8 | 1.2 | 1.2 | 1.4 | 1.4 | 1.4 |
| MAINS CABLE No. Cores | | 3 | 3 | 3 | 3 | 3 | 3 |
| UNIFORMITY AT OUTLET (%)*1 | | 90 | 92 | 92 | 90 | 90 | 90 |
| MAX MOUNTING HEIGHT (m) | | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |

| HEAT PUMP OUTDOOR UNITS | | PUZ-ZM71VHAR1 | PUZ-ZM125VKAR2 | PUZ-ZM125YKAR2 ③ | PUZ-ZM140VKAR2 | PUZ-ZM140YKAR2 ③ | PUZ-ZM200YKA ③ |
|---|---|---|---|---|---|---|---|
| SOUND PRESSURE LEVEL (dBA) | Heating/Cooling | 49 / 47 | 52 / 50 | 52 / 50 | 52 / 50 | 52 / 50 | 62 / 59 |
| SOUND POWER LEVEL (dBA) | Cooling | 67 | 70 | 70 | 70 | 70 | 77 |
| WEIGHT (kg) | | 70 | 116 | 125 | 118 | 131 | 137 |
| DIMENSIONS (mm) | Width x Depth x Height | 950 x 330 + 25 x 943 | 1050 x 330 + 40 x 1338 | 1050 x 330 + 40 x 1338 | 1050 x 330 + 40 x 1338 | 1050 x 330 + 40 x 1338 | 1050 x 330+40 x 1338 |
| ELECTRICAL SUPPLY | | 220-240v, 50Hz | 220-240v, 50Hz | 380-415v, 50Hz | 220-240v, 50Hz | 380-415v, 50Hz | 380-415V, 50Hz |
| PHASE | | Single | Single | Three | Single | Three | Three |
| STARTING CURRENT (A) | | 6.0 | 13 | 6.0 | 13 | 6.0 | 5.0 |
| SYSTEM RUNNING CURRENT (A) | Heating/Cooling [MAX] | 7.79 / 7.06 [19.3] | 15.77 / 14.53 [27.0] | 5.32 / 4.89 [10.0] | 18.41 / 15.88 [28.7] | 6.23 / 5.37 [13.7] | 9.57 / 8.58 [22.5] |
| FUSE RATING (BS88) - HRC (A) | | 25 | 32 | 16 | 40 | 16 | 25 |
| INTERCONNECTING CABLE | | 2 Core | 2 Core | 2 Core | 2 Core | 2 Core | 2 Core |
| MAX PIPE LENGTH (m) | | 55 | 85 | 85 | 85 | 85 | 85 |
| MAX HEIGHT DIFFERENCE (m) | | 30 | 30 | 30 | 30 | 30 | 30 |
| CHARGE REFRIGERANT (kg) / $CO_2$ EQUIVALENT (t) - R32 (GWP 675) - 30m | | 2.80 / 1.89 | 4.00 / 2.70 | 4.00 / 2.70 | 4.00 / 2.70 | 4.00 / 2.70 | 6.3 / 4.25 |
| MAX ADDITIONAL REFRIGERANT (kg) / $CO_2$ EQUIVALENT (t) - R32 (GWP 675) - 30m | | 0.80 / 0.54 | 2.20 / 1.49 | 2.20 / 1.49 | 2.20 / 1.49 | 2.20 / 1.49 | 2.20 / 1.49 |

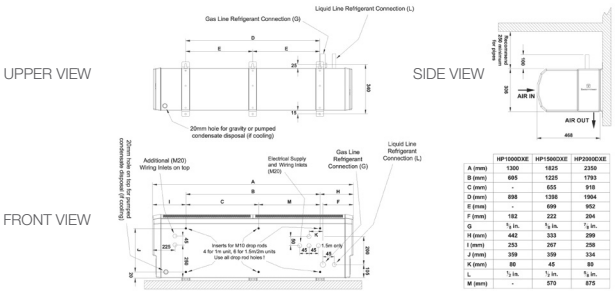
③ Three Phase **Notes:** *1 Tested to ISO 27327

## HP1000/1500/2000R DXE DIMENSIONS




| | HP1000R DXE | HP1500R DXE | HP2000R DXE |
|---|---|---|---|
| A (mm) | 1250 | 1750 | 2340 |
| B (mm) | - | 724 | 1129 |
| C (mm) | - | 976 | 1161 |
| D (mm) | 1303 | 1803 | 2393 |
| E (mm) | 170 | 166 | 189 |
| G | 5/8 in. | 5/8 in. | 7/8 in. |
| L | 1/2 in. | 1/2 in. | 3/8 in. |
| Cut-Out in Ceiling Length (mm) | 1250 | 1750 | 2340 |
| Cut-Out in Ceiling Width (mm) | 485 | 485 | 485 |

## HP1000/1500/2000 DXE DIMENSIONS




| | HP1000DXE | HP1500DXE | HP2000DXE |
|---|---|---|---|
| A (mm) | 1300 | 1825 | 2350 |
| B (mm) | 695 | 1225 | 1793 |
| C (mm) | - | 655 | 918 |
| D (mm) | 898 | 1398 | 1984 |
| E (mm) | - | 699 | 952 |
| F (mm) | 182 | 222 | 204 |
| G | 5/8 in. | 5/8 in. | 7/8 in. |
| H (mm) | 442 | 333 | 299 |
| I (mm) | 253 | 267 | 258 |
| J (mm) | 359 | 359 | 334 |
| K (mm) | 80 | 45 | 80 |
| L | 1/2 in. | 1/2 in. | 3/8 in. |
| M (mm) | - | 370 | 675 |


MITSUBISHI ELECTRIC
*Changes for the Better*

Telephone: **01707 282880**
email: **air.conditioning@meuk.mee.com**
**les.mitsubishielectric.co.uk**

@meuk_les
@green_gateway
Mitsubishi Electric Living Environmental Systems UK
Mitsubishi Electric Cooling and Heating UK
mitsubishielectricuk_les
Mitsubishi Electric Living Environmental Systems UK
BLOG thehub.mitsubishielectric.co.uk

**UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division,** Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
**IRELAND Mitsubishi Electric Europe,** Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)




**Note:** The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

**Effective as of September 2020**

Green Gateway greengateway.mitsubishielectric.co.uk