



# technoblock



## MISTRAL ID Units

*colder  
than ever*



### **Monoblocchi industriali tampone a parete** ***Industrial through the wall monoblock units***

**Monoblocchi** compatti per la refrigerazione industriale. Unità adatte al controllo di ambienti a temperatura positiva e negativa, sono di veloce installazione e regolazione, economiche nella gestione e di facile manutenzione. Gas R404A (GWP = 3.922), altri a richiesta.

**Compact monoblocks** for the industrial refrigeration. Units suitable to control positive and negative cold rooms, quick to install, simple to use, easy to maintain. R404A refrigerant (GWP = 3.922) other on request.



| codice<br>code                               |                         | IDNH1120              | IDNH1150              | IDNH1200              | IDNH2250              | IDNH2300              | IDNH3350              | IDNH3450              | IDNH4600              | IDNH4750              | IDNH5800              | IDNH51500             |
|----------------------------------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| forma<br>form                                |                         | 1                     | 1                     | 1                     | 2                     | 2                     | 3                     | 3                     | 4                     | 4                     | 5                     | 5                     |
| tensione<br>voltage                          | V/ph/Hz                 | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              | 400/3/50              |
| max ass. el. in marcia<br>Max Run Amps       | kW                      | 1,68                  | 2,23                  | 2,67                  | 3,39                  | 4,29                  | 5,68                  | 6,89                  | 8,87                  | 9,88                  | 13,03                 | 16,19                 |
| tipo di compressore<br>compressor type       |                         | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  | Ermetico<br>Hermetic  |
| volume spostato<br>displacement              | m <sup>3</sup> /h 50 Hz | 4,51                  | 6,63                  | 8,36                  | 9,37                  | 11,81                 | 14,9                  | 18,74                 | 23,63                 | 29,8                  | 37,49                 | 47,25                 |
| tipo di sbrinamento<br>defrost type          |                         | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric | Elettrico<br>Electric |
| assorbim. in sbrinam.<br>abs. during defrost | kW                      | 3,1                   | 3,1                   | 3,1                   | 3,85                  | 3,85                  | 7,6                   | 7,6                   | 10,1                  | 11,1                  | 12,1                  | 16,9                  |

## CONDENSATORE - CONDENSER

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 1x350 | 2x350 | 2x350 | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 1x140 | 2x140 | 2x140 | 1x640 | 1x640 | 2x435 | 2x435 | 2x640 | 2x640 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2170  | 2170  | 2170  | 3810  | 3810  | 6450  | 6450  | 9000  | 9000  | 12900 | 12900 |

## EVAPORATORE - EVAPORATOR

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 1x350 | 2x350 | 2x350 | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 1x140 | 2x140 | 2x140 | 1x680 | 1x680 | 2x400 | 2x400 | 2x680 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2320  | 2320  | 2250  | 4310  | 4170  | 6110  | 5970  | 8900  | 8600  | 12500 | 12270 |
| freccia aria<br>air-throw                       | m                 | 13    | 13    | 13    | 14    | 14    | 20    | 20    | 19    | 19    | 22    | 22    |

## PESO UNITÀ - UNIT WEIGHT

| massa<br>mass | kg | 138 | 140 | 146 | 198 | 209 | 339 | 351 | 433 | 461 | 620 | 638 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

## TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 80 mm

|       |       | IDNH1120 |                                | IDNH1150 |                                | IDNH1200 |                                | IDNH2250 |                                | IDNH2300 |                                | IDNH3350 |                                |
|-------|-------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|
| Ti °C | Ta °C | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> |
| -5    | 32    | 2327     | 25,73                          | 2562     | 29,63                          | 3410     | 44,03                          | 4086     | 55,85                          | 5666     | 84,53                          | 7199     | 113,7                          |
|       | 43    | 1909     | 18,87                          | 2019     | 20,67                          | 2728     | 32,41                          | 3290     | 41,97                          | 4421     | 61,8                           | 5719     | 85,52                          |
| 0     | 32    | 2760     | 32,95                          | 3063     | 38,08                          | 4009     | 54,48                          | 4854     | 69,61                          | 6554     | 101,27                         | 8618     | 141,74                         |
|       | 43    | 2272     | 24,82                          | 2450     | 27,76                          | 3188     | 40,21                          | 3930     | 53,09                          | 5218     | 76,25                          | 6892     | 107,76                         |
| 5     | 32    | 3279     | 41,78                          | 3718     | 49,38                          | 4751     | 67,74                          | 5872     | 88,38                          | 7604     | 121,6                          | 10507    | 180,45                         |
|       | 43    | 2737     | 32,57                          | 3010     | 37,18                          | 3763     | 50,17                          | 4744     | 67,61                          | 6191     | 94,38                          | 8480     | 138,98                         |

## TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 80 mm

|       |       | IDNH3450 |                                | IDNH4600 |                                | IDNH4750 |                                | IDNH5800 |                                | IDNH51500 |                                |
|-------|-------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|----------|--------------------------------|-----------|--------------------------------|
| Ti °C | Ta °C | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)   | V <sub>80</sub> m <sup>3</sup> | Qo (W)    | V <sub>80</sub> m <sup>3</sup> |
| -5    | 32    | 8968     | 148,8                          | 12135    | 214,9                          | 13397    | 242,17                         | 18281    | 350,96                         | 22450     | 445,44                         |
|       | 43    | 7215     | 114                            | 9836     | 166,54                         | 10664    | 183,74                         | 14645    | 269,54                         | 18080     | 346,42                         |
| 0     | 32    | 10634    | 183,11                         | 14282    | 261,54                         | 15824    | 295,72                         | 21323    | 419,92                         | 26507     | 545,47                         |
|       | 43    | 8617     | 141,72                         | 11654    | 204,62                         | 12679    | 226,59                         | 17366    | 330,3                          | 21260     | 418,49                         |
| 5     | 32    | 12785    | 228,88                         | 17083    | 323,93                         | 19024    | 367,78                         | 25600    | 524,37                         | 31267     | 656,54                         |
|       | 43    | 10432    | 178,89                         | 14013    | 255,64                         | 15322    | 284,55                         | 21151    | 416,02                         | 25210     | 515,31                         |



| codice<br>code                               |                         | IDNS1150                      | IDNS1200                      | IDNS2250                      | IDNS2300                      | IDNS3350                      | IDNS3450                      | IDNS4600                      | IDNS4750                      | IDNS5800                      | IDNS51500                     | IDNS52000                     |
|----------------------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| forma<br>form                                |                         | 1                             | 1                             | 2                             | 2                             | 3                             | 3                             | 4                             | 4                             | 5                             | 5                             | 5                             |
| tensione<br>voltage                          | V/ph/Hz                 | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      |
| max ass. el. in marcia<br>Max Run Amps       | kW                      | 2,22                          | 2,89                          | 3,59                          | 4,43                          | 5,61                          | 6,69                          | 8,67                          | 9,75                          | 13,81                         | 17,24                         | 19,34                         |
| tipo di compressore<br>compressor type       |                         | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic |
| volume spostato<br>displacement              | m <sup>3</sup> /h 50 Hz | 6,75                          | 8,47                          | 9,88                          | 12,17                         | 14,74                         | 16,76                         | 23,37                         | 26,5                          | 38,64                         | 48,8                          | 56,95                         |
| tipo di sbrinamento<br>defrost type          |                         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         |
| assorbim. in sbrinam.<br>abs. during defrost | kW                      | 3,1                           | 3,1                           | 3,85                          | 3,85                          | 7,6                           | 7,6                           | 10,1                          | 11,1                          | 12,1                          | 16,9                          | 16,9                          |

#### CONDENSATORE - CONDENSER

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 2x350 | 2x350 | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 | 2x500 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 2x140 | 2x140 | 1x640 | 1x640 | 2x435 | 2x435 | 2x640 | 2x640 | 2x640 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2170  | 2170  | 3810  | 3810  | 6450  | 6450  | 9000  | 9000  | 12900 | 12900 | 12900 |

#### EVAPORATORE - EVAPORATOR

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 2x350 | 2x350 | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 | 2x500 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 2x140 | 2x140 | 1x680 | 1x680 | 2x400 | 2x400 | 2x680 | 2x680 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2320  | 2250  | 4310  | 4170  | 6110  | 5970  | 8900  | 8600  | 12500 | 12270 | 12050 |
| freccia aria<br>air-throw                       | m                 | 13    | 13    | 14    | 14    | 20    | 20    | 19    | 19    | 22    | 22    | 22    |

#### PESO UNITÀ - UNIT WEIGHT

| massa<br>mass | kg | 156 | 164 | 219 | 239 | 361 | 403 | 485 | 491 | 682 | 701 | 781 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

#### TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 80 mm

|       |       | IDNS1150           |                                | IDNS1200           |                                | IDNS2250           |                                | IDNS2300           |                                | IDNS3350           |                                | IDNS3450           |                                |
|-------|-------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| Ti °C | Ta °C | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> |
| -5    | 32    | 3281               | 41,81                          | 4140               | 56,8                           | 4455               | 62,41                          | 5907               | 89,03                          | 7276               | 115,2                          | 9363               | 156,84                         |
|       | 43    | 2663               | 31,32                          | 3404               | 43,93                          | 3655               | 48,28                          | 4902               | 70,48                          | 5959               | 90,01                          | 7761               | 124,69                         |
| 0     | 32    | 3773               | 50,34                          | 4813               | 68,86                          | 5082               | 73,76                          | 6972               | 109,3                          | 8563               | 140,64                         | 10992              | 190,62                         |
|       | 43    | 3025               | 37,44                          | 3891               | 52,41                          | 4189               | 57,67                          | 5774               | 86,54                          | 6948               | 108,84                         | 8959               | 148,62                         |
| 5     | 32    | 4192               | 57,72                          | 5402               | 79,63                          | 5907               | 89,03                          | 8025               | 129,91                         | 10115              | 172,3                          | 12578              | 224,42                         |
|       | 43    | 3324               | 42,55                          | 4279               | 59,27                          | 4878               | 70,04                          | 6680               | 103,69                         | 8219               | 133,76                         | 10151              | 173,05                         |

#### TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 80 mm

|       |       | IDNS4600           |                                | IDNS4750           |                                | IDNS5800           |                                | IDNS51500          |                                | IDNS52000          |                                |
|-------|-------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|--------------------|--------------------------------|
| Ti °C | Ta °C | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> | Q <sub>o</sub> (W) | V <sub>80</sub> m <sup>3</sup> |
| -5    | 32    | 12401              | 220,6                          | 14142              | 258,47                         | 20452              | 400,17                         | 23515              | 469,45                         | 25159              | 514,11                         |
|       | 43    | 10286              | 175,85                         | 11484              | 201,01                         | 16959              | 321,15                         | 19557              | 379,86                         | 20864              | 409,52                         |
| 0     | 32    | 14062              | 256,71                         | 16157              | 303,16                         | 23487              | 468,82                         | 27192              | 561,42                         | 28893              | 601,09                         |
|       | 43    | 11591              | 203,28                         | 13085              | 235,38                         | 19441              | 377,23                         | 22254              | 441                            | 23416              | 467,22                         |
| 5     | 32    | 15993              | 299,5                          | 18570              | 357,5                          | 27333              | 564,71                         | 31660              | 665,77                         | 33205              | 701,96                         |
|       | 43    | 13132              | 236,4                          | 14957              | 276,45                         | 22694              | 450,95                         | 25881              | 530,9                          | 26961              | 556,05                         |



| codice<br>code                               |                         | IDKH1250                      | IDKH1300                      | IDKH1400                      | IDKS1250                      | IDKS1300                      | IDKS1400                      | IDKS2450                      | IDKS2500                      |
|----------------------------------------------|-------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| forma<br>form                                |                         | 1                             | 1                             | 1                             | 1                             | 1                             | 1                             | 2                             | 2                             |
| tensione<br>voltage                          | V/ph/Hz                 | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      |
| max ass. el. in marcia<br>Max Run Amps       | kW                      | 2,66                          | 2,53                          | 3,85                          | 3,04                          | 3,15                          | 3,41                          | 4,22                          | 5,64                          |
| tipo di compressore<br>compressor type       |                         | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic |
| volume spostato<br>displacement              | m <sup>3</sup> /h 50 Hz | 11,81                         | 12,92                         | 16,73                         | 12,17                         | 14,74                         | 15,94                         | 17,53                         | 23,37                         |
| tipo di sbrinamento<br>defrost type          |                         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         |
| assorbim. in sbrinam.<br>abs. during defrost | kW                      | 3,1                           | 3,1                           | 3,1                           | 3,1                           | 3,1                           | 3,1                           | 3,85                          | 3,85                          |

## CONDENSATORE - CONDENSER

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 1x350 | 1x350 | 1x350 | 1x350 | 2x350 | 2x350 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 1x140 | 1x140 | 1x140 | 1x140 | 2x140 | 2x140 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2170  | 2170  | 2170  | 2170  | 2170  | 2170  | 3810  | 3810  |

## EVAPORATORE - EVAPORATOR

| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 1x350 | 1x350 | 1x350 | 1x350 | 1x350 | 2x350 | 2x350 |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 1x140 | 1x140 | 1x140 | 1x140 | 1x140 | 2x140 | 2x140 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2320  | 2320  | 2250  | 2320  | 2320  | 2250  | 4310  | 4170  |
| freccia aria<br>air-throw                       | m                 | 13    | 13    | 13    | 13    | 13    | 13    | 14    | 14    |

## PESO UNITÀ - UNIT WEIGHT

| massa<br>mass | kg | 152 | 160 | 164 | 181 | 175 | 182 | 263 | 273 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|

## TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 100 mm

|       |       | IDKH1250 |                                 | IDKH1300 |                                 | IDKH1400 |                                 | IDKS1250 |                                 |
|-------|-------|----------|---------------------------------|----------|---------------------------------|----------|---------------------------------|----------|---------------------------------|
| Ti °C | Ta °C | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> |
| -18   | 32    | 3019     | 36,9                            | 2748     | 31,6                            | 3459     | 45,7                            | 3046     | 37,4                            |
|       | 43    | 2435     | 25,8                            | 2110     | 19,9                            | 2716     | 31,0                            | 2505     | 27,1                            |
| -22   | 32    | 2610     | 29,0                            | 2340     | 24,0                            | 2974     | 36,0                            | 2673     | 30,2                            |
|       | 43    | 2074     | 19,3                            | 1763     | 15,2                            | 2285     | 23,1                            | 2177     | 21,1                            |
| -25   | 32    | 2297     | 23,3                            | 2092     | 19,6                            | 2619     | 29,2                            | 2347     | 24,2                            |
|       | 43    | 1814     | 15,9                            | 1533     | 12,1                            | 1961     | 17,3                            | 1926     | 16,7                            |

## TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 100 mm

|       |       | IDKS1300 |                                 | IDKS1400 |                                 | IDKS2450 |                                 | IDKS2500 |                                 |
|-------|-------|----------|---------------------------------|----------|---------------------------------|----------|---------------------------------|----------|---------------------------------|
| Ti °C | Ta °C | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)   | V <sub>100</sub> m <sup>3</sup> |
| -18   | 32    | 3268     | 41,8                            | 3577     | 48,1                            | 4693     | 72,3                            | 5534     | 91,9                            |
|       | 43    | 2633     | 29,5                            | 2913     | 34,8                            | 3994     | 56,8                            | 4590     | 69,9                            |
| -22   | 32    | 2821     | 33,0                            | 3118     | 38,8                            | 4054     | 58,1                            | 4894     | 76,8                            |
|       | 43    | 2304     | 23,4                            | 2553     | 28,0                            | 3437     | 45,2                            | 3976     | 56,5                            |
| -25   | 32    | 2497     | 26,9                            | 2777     | 32,2                            | 3570     | 47,9                            | 4349     | 64,6                            |
|       | 43    | 2027     | 18,5                            | 2261     | 22,6                            | 3018     | 36,8                            | 3557     | 47,7                            |



| codice<br>code                               |                            | IDKS3800                      | IDKS31000                     | IDKS41250                     | IDKS41500                     | IDKS52000                     | IDKS52500                     | IDKS53000                     |
|----------------------------------------------|----------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|
| forma<br>form                                |                            | 3                             | 3                             | 4                             | 4                             | 5                             | 5                             | 5                             |
| tensione<br>voltage                          | V/ph/Hz                    | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      | 400/3/50                      |
| max ass. el. in marcia<br>Max Run Amps       | kW                         | 8,89                          | 11,51                         | 13,31                         | 17,72                         | 20,19                         | 26,34                         | 29,7                          |
| tipo di compressore<br>compressor type       |                            | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic | Semihermetico<br>Semihermetic |
| volume spostato<br>displacement              | m <sup>3</sup> /h 50<br>Hz | 38,64                         | 48,8                          | 56,95                         | 73,2                          | 83,9                          | 110,6                         | 126,7                         |
| tipo di sbrinamento<br>defrost type          |                            | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         | Elettrico<br>Electric         |
| assorbim. in sbrinam.<br>abs. during defrost | kW                         | 7,6                           | 7,6                           | 10,1                          | 11,1                          | 12,1                          | 16,9                          | 16,9                          |

#### CONDENSATORE - CONDENSER

|                                                 |                   |       |       |       |       |       |       |       |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|
| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 | 2x500 |
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x640 | 1x640 | 2x435 | 2x435 | 2x640 | 2x640 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 6450  | 6450  | 9000  | 9000  | 12900 | 12900 | 16600 |

#### EVAPORATORE - EVAPORATOR

|                                                 |                   |       |       |       |       |       |       |       |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|
| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x500 | 1x500 | 2x450 | 2x450 | 2x500 | 2x500 | 2x500 |
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x680 | 1x680 | 2x400 | 2x400 | 2x680 | 2x680 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 6110  | 5970  | 8900  | 8600  | 12500 | 12270 | 12050 |
| freccia aria<br>air-throw                       | m                 | 20    | 20    | 19    | 19    | 22    | 22    | 22    |

#### PESO UNITÀ - UNIT WEIGHT

|               |    |     |     |     |     |     |     |     |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|
| massa<br>mass | kg | 413 | 443 | 553 | 566 | 741 | 815 | 833 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|

#### TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 100 mm

|       |       | IDKS3800 |                                 | IDKS31000 |                                 | IDKS41250 |                                 | IDKS41500 |                                 |
|-------|-------|----------|---------------------------------|-----------|---------------------------------|-----------|---------------------------------|-----------|---------------------------------|
| Ti °C | Ta °C | Qo (W)   | V <sub>100</sub> m <sup>3</sup> | Qo (W)    | V <sub>100</sub> m <sup>3</sup> | Qo (W)    | V <sub>100</sub> m <sup>3</sup> | Qo (W)    | V <sub>100</sub> m <sup>3</sup> |
| -18   | 32    | 10592    | 230,9                           | 11753     | 266,5                           | 14302     | 347,6                           | 17194     | 441,8                           |
|       | 43    | 8674     | 174,6                           | 9588      | 200,9                           | 11816     | 268,5                           | 14205     | 344,5                           |
| -22   | 32    | 9143     | 188,0                           | 10266     | 221,1                           | 12649     | 294,7                           | 15379     | 382,6                           |
|       | 43    | 7295     | 136,6                           | 8097      | 158,4                           | 10106     | 216,3                           | 12234     | 281,6                           |
| -25   | 32    | 8210     | 161,6                           | 9085      | 186,3                           | 11315     | 252,9                           | 13766     | 330,3                           |
|       | 43    | 6559     | 117,4                           | 7261      | 135,7                           | 9241      | 190,8                           | 11236     | 250,5                           |

#### TABELLA DI SELEZIONE • SELECTION TABLE

spessore isolamento • insulation thickness = 100 mm

|       |       | IDKS52000 |                                 | IDKS52500 |                                 | IDKS53000 |                                 |
|-------|-------|-----------|---------------------------------|-----------|---------------------------------|-----------|---------------------------------|
| Ti °C | Ta °C | Qo (W)    | V <sub>100</sub> m <sup>3</sup> | Qo (W)    | V <sub>100</sub> m <sup>3</sup> | Qo (W)    | V <sub>100</sub> m <sup>3</sup> |
| -18   | 32    | 22612     | 646,8                           | 27050     | 804,3                           | 30218     | 918,3                           |
|       | 43    | 18913     | 517,5                           | 22424     | 640,2                           | 25050     | 733,0                           |
| -22   | 32    | 20064     | 557,5                           | 24033     | 697,0                           | 26836     | 796,7                           |
|       | 43    | 16684     | 425,2                           | 20012     | 555,7                           | 22395     | 639,2                           |
| -25   | 32    | 17884     | 481,8                           | 21347     | 602,4                           | 23844     | 690,3                           |
|       | 43    | 14976     | 369,5                           | 17955     | 484,3                           | 20036     | 556,6                           |



Monoblocchi industriali tampone a parete

$Q=T_i +5 \div -25\text{ }^{\circ}\text{C} - X=T_i -25 \div -45\text{ }^{\circ}\text{C}$

Industrial through the wall monoblock units

$Q=T_i +5 \div -25\text{ }^{\circ}\text{C} - X=T_i -25 \div -45\text{ }^{\circ}\text{C}$

| codice<br>code                               |                            | IDQH1300              | IDQS2500                     | IDQS31000                    | IDQS41500                    | IDQS52000                    | IDQS5300                     | IDXB31000                                  | IDXB51500                                  | IDXB52000                                  |
|----------------------------------------------|----------------------------|-----------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|
| forma<br>form                                |                            | 1                     | 2                            | 3                            | 4                            | 5                            | 5                            | 3                                          | 5                                          | 5                                          |
| tensione<br>voltage                          | V/ph/Hz                    | 400/3/50              | 400/3/50                     | 400/3/50                     | 400/3/50                     | 400/3/50                     | 400/3/50                     | 400/3/50                                   | 400/3/50                                   | 400/3/50                                   |
| max ass. el. in marcia<br>Max Run Amps       | kW                         | 4,64                  | 6,81                         | 15,92                        | 21,45                        | 27,22                        | 41,02                        | 8,86                                       | 18,96                                      | 21,53                                      |
| tipo di compressore<br>compressor type       |                            | Ermetico<br>Hermetic  | Semiermetico<br>Semihermetic | Semiermetico<br>Semihermetic | Semiermetico<br>Semihermetic | Semiermetico<br>Semihermetic | Semiermetico<br>Semihermetic | Semiermetico bistadio<br>Semi.double stage | Semiermetico bistadio<br>Semi.double stage | Semiermetico bistadio<br>Semi.double stage |
| volume spostato<br>displacement              | m <sup>3</sup> /h 50<br>Hz | 14,9                  | 22,72                        | 48,8                         | 73,2                         | 84,5                         | 126,7                        | 45,9                                       | 95,3                                       | 110,5                                      |
| tipo di sbrinamento<br>defrost type          |                            | Elettrico<br>Electric | Elettrico<br>Electric        | Elettrico<br>Electric        | Elettrico<br>Electric        | Elettrico<br>Electric        | Elettrico<br>Electric        | Elettrico<br>Electric                      | Elettrico<br>Electric                      | Elettrico<br>Electric                      |
| assorbim. in sbrinam.<br>abs. during defrost | kW                         | 3,1                   | 3,85                         | 7,6                          | 11,1                         | 16,9                         | 16,9                         | 7,6                                        | 16,6                                       | 16,9                                       |

### CONDENSATORE - CONDENSER

|                                                 |                   |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 2x350 | 1x500 | 2x450 | 2x500 | 2x500 | 1x500 | 2x500 | 2x500 |
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 2x140 | 1x640 | 2x435 | 2x640 | 2x680 | 1x640 | 2x640 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2170  | 3810  | 6450  | 9000  | 12900 | 16600 | 6450  | 12900 | 16600 |

### EVAPORATORE - EVAPORATOR

|                                                 |                   |       |       |       |       |       |       |       |       |       |
|-------------------------------------------------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ventole<br>fans                                 | n°x Ø<br>(mm)     | 1x350 | 2x350 | 1x500 | 2x450 | 2x500 | 2x500 | 1x500 | 2x500 | 2x500 |
| assorbim. ventole cad.<br>fan absorption (each) | n°x W             | 1x140 | 2x140 | 1x680 | 2x400 | 2x680 | 2x680 | 1x680 | 2x680 | 2x680 |
| portata aria<br>airflow                         | m <sup>3</sup> /h | 2320  | 4170  | 5970  | 8600  | 12500 | 12050 | 5970  | 12270 | 12050 |
| freccia aria<br>air-throw                       | m                 | 13    | 14    | 20    | 19    | 22    | 22    | 20    | 22    | 22    |

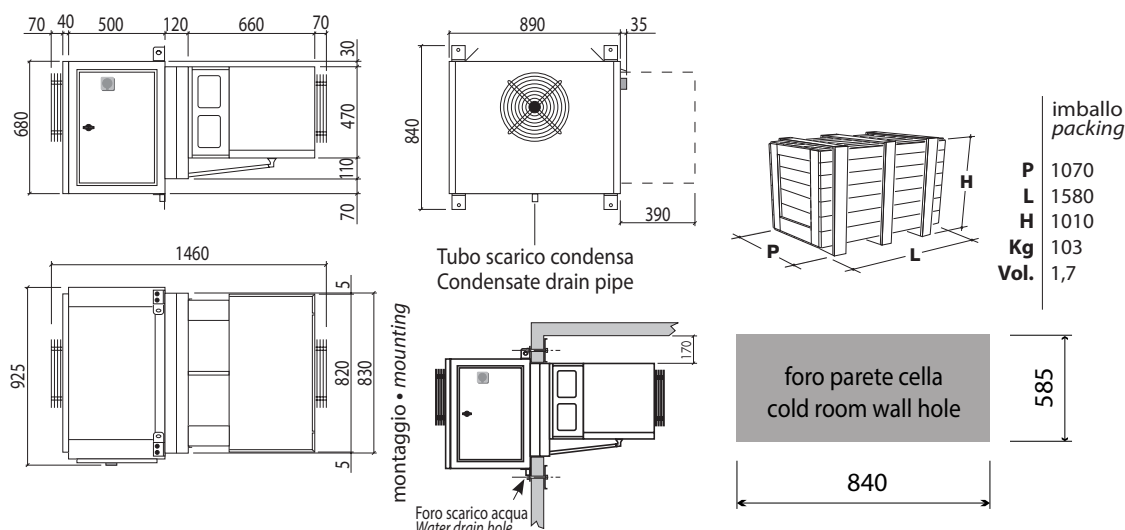
### PESO UNITÀ - UNIT WEIGHT

|               |    |     |     |     |     |     |     |     |     |     |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| massa<br>mass | kg | 164 | 293 | 443 | 566 | 741 | 833 | 497 | 827 | 852 |
|---------------|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|

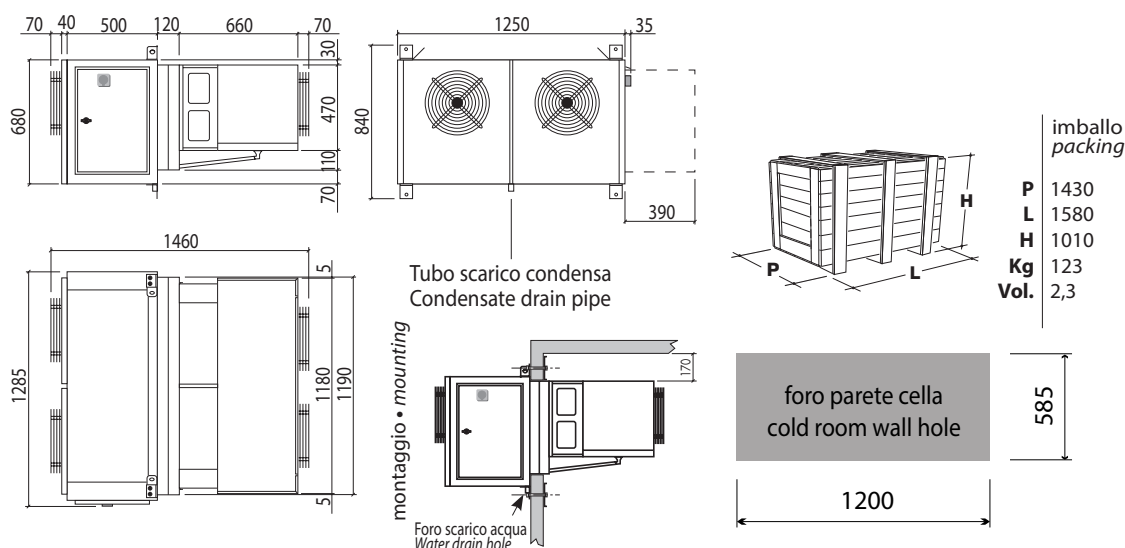
| TABELLA DI SELEZIONE • SELECTION TABLE |       |          |         |          |         |           |         |           |         | spessore isolamento • insulation thickness = 100 mm |         |          |         |       |           |           |           |  |
|----------------------------------------|-------|----------|---------|----------|---------|-----------|---------|-----------|---------|-----------------------------------------------------|---------|----------|---------|-------|-----------|-----------|-----------|--|
|                                        |       | IDQH1300 |         | IDQS2500 |         | IDQS31000 |         | IDQS41500 |         | IDQS52000                                           |         | IDQS5300 |         |       | IDXB31000 | IDXB51500 | IDXB52000 |  |
| Ti °C                                  | Ta °C | Qo (W)   | V100 m³ | Qo (W)   | V100 m³ | Qo (W)    | V100 m³ | Qo (W)    | V100 m³ | Qo (W)                                              | V100 m³ | Qo (W)   | V100 m³ | Ti °C | Qo (W)    | Qo (W)    | Qo (W)    |  |
| -5                                     | 32    | 3729     | 54,5    | 5244     | 84,3    | 10697     | 202,7   | 15099     | 307,3   | 20443                                               | 439,5   | 33780    | 786,2   | -25   | 6896      | 15088     | 16701     |  |
|                                        | 43    | 3004     | 40,8    | 4316     | 65,8    | 8820      | 160,2   | 12513     | 245,1   | 17243                                               | 359,9   | 28479    | 649,9   |       | 6778      | 14579     | 15970     |  |
| 0                                      | 32    | 4383     | 67,2    | 6038     | 100,5   | 12234     | 238,5   | 17295     | 361,2   | 23587                                               | 517,7   | 38798    | 915,9   | -35   | 5724      | 12865     | 14239     |  |
|                                        | 43    | 3505     | 50,2    | 4995     | 79,3    | 10129     | 189,7   | 14320     | 288,3   | 19816                                               | 423,9   | 32581    | 755,3   |       | 5391      | 12400     | 13629     |  |
| 5                                      | 32    | 5221     | 83,8    | 7075     | 122,3   | 14207     | 285,6   | 19628     | 419,2   | 27351                                               | 621,0   | 28822    | 658,7   | -45   | 4675      | 10836     | 12001     |  |
|                                        | 43    | 4175     | 63,1    | 5758     | 94,8    | 11563     | 222,7   | 15975     | 328,8   | 22980                                               | 502,6   | 24216    | 540,9   |       | 4407      | 10497     | 11523     |  |
| -18                                    | 32    | 2748     | 31,6    | 5534     | 91,9    | 11753     | 266,5   | 17194     | 441,8   | 22612                                               | 646,8   | 30218    | 918,3   |       |           |           |           |  |
|                                        | 43    | 2110     | 19,9    | 4590     | 69,9    | 9588      | 200,9   | 14205     | 344,5   | 18913                                               | 517,5   | 25050    | 733,0   |       |           |           |           |  |
| -22                                    | 32    | 2340     | 24,0    | 4894     | 76,8    | 10266     | 221,1   | 15379     | 382,6   | 20064                                               | 557,5   | 26836    | 796,7   |       |           |           |           |  |
|                                        | 43    | 1763     | 15,2    | 3976     | 56,5    | 8097      | 158,4   | 12234     | 281,6   | 16684                                               | 425,2   | 22395    | 639,2   |       |           |           |           |  |
| -25                                    | 32    | 2092     | 19,6    | 4349     | 64,6    | 9085      | 186,3   | 13766     | 330,3   | 17884                                               | 481,8   | 23844    | 690,3   |       |           |           |           |  |
|                                        | 43    | 1533     | 12,1    | 3557     | 47,7    | 7261      | 135,7   | 11236     | 250,5   | 14976                                               | 369,5   | 20036    | 556,6   |       |           |           |           |  |



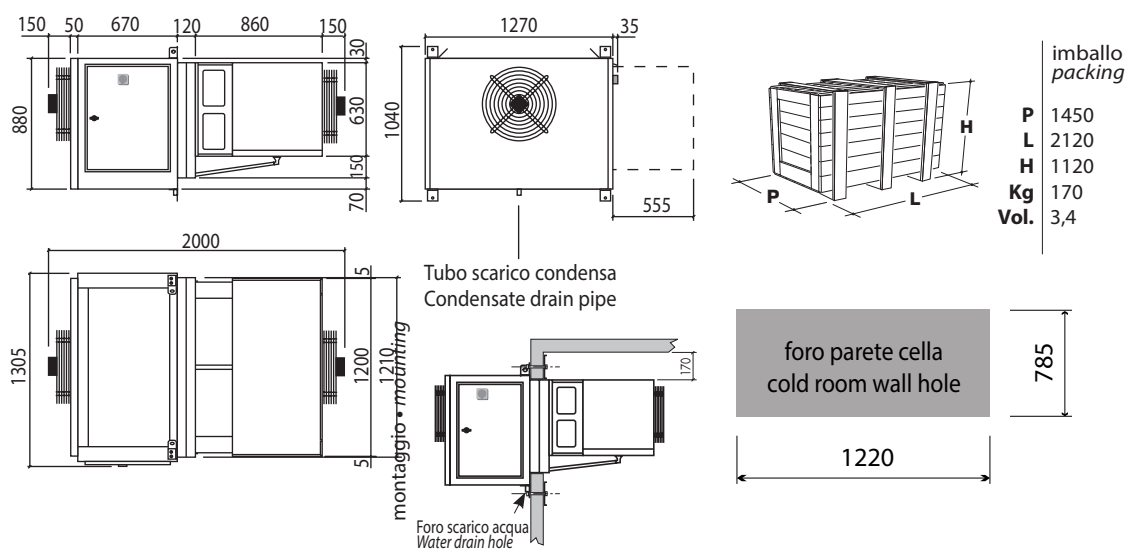
### Dimensioni **Forma 1** • **Form 1 Dimensions**



### Dimensioni **Forma 2** • **Form 2 Dimensions**



### Dimensioni **Forma 3** • **Form 3 Dimensions**

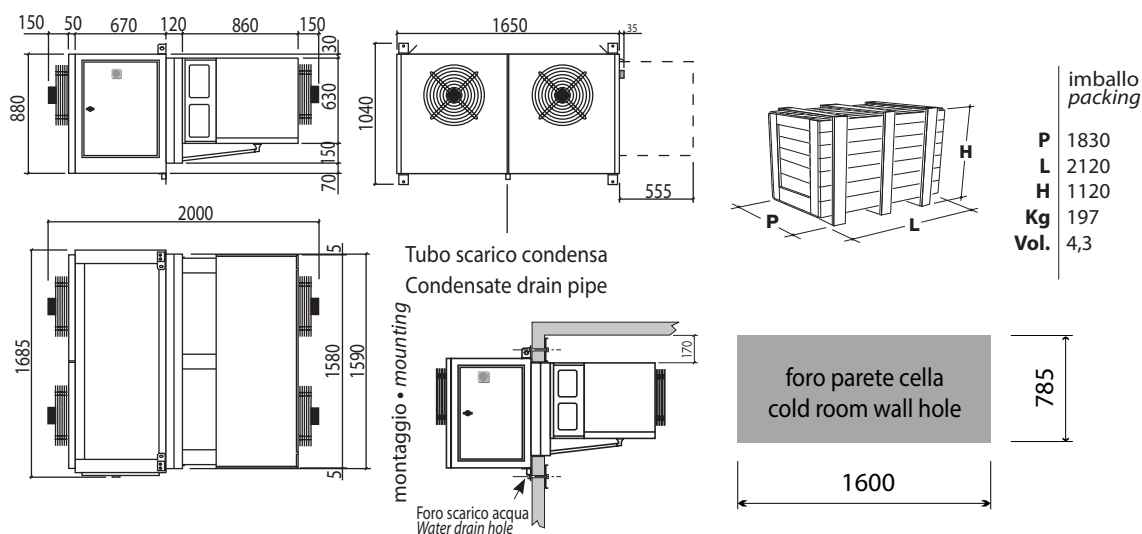




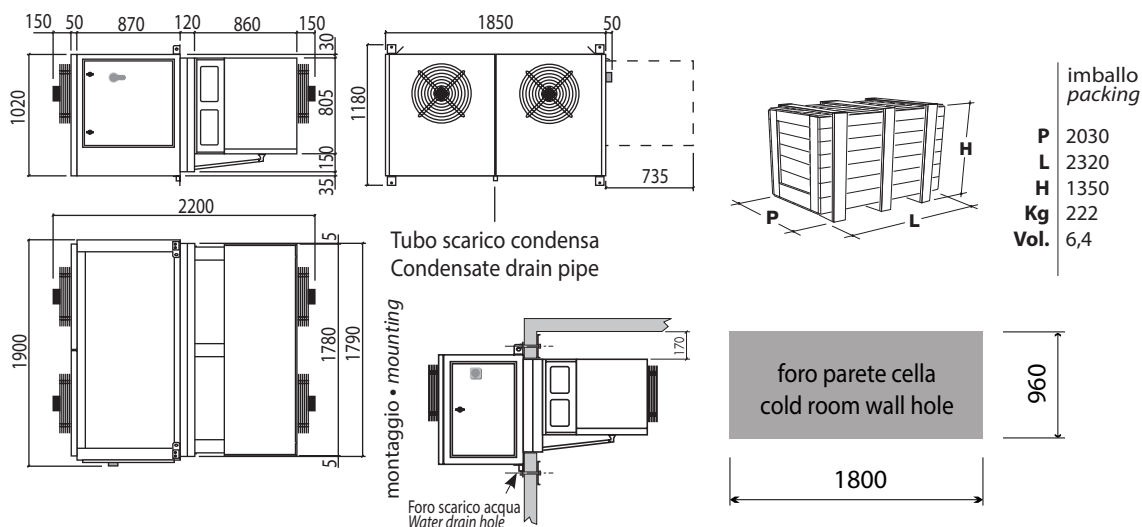
# MISTRAL

Monoblocchi industriali tampone a parete  
Industrial through the wall monoblock units

## Dimensioni **Forma 4** • **Form 4 Dimensions**



## Dimensioni **Forma 5** • **Form 5 Dimensions**



**CONDIZIONI DI CALCOLO VOLUMI - VOLUME CALCULATION CONDITIONS**

| Versione<br>Version                       | Tc<br>°C | d<br>Kg / m <sup>3</sup> | Csp<br>Kcal / Kg °C | h  | sp<br>mm | Ti<br>°C | mov<br>% |
|-------------------------------------------|----------|--------------------------|---------------------|----|----------|----------|----------|
| <b>"N"</b><br>Media temp.<br>Medium Temp. | 0        | 250                      | 0,77                | 18 | 80       | 25       | 7        |
| <b>"K"</b><br>Bassa temp.<br>Low Temp.    | -20      | 250                      | 0,44                | 18 | 100      | -5       | 7        |
| <b>"Q"</b><br>Bassa temp.<br>Low Temp.    | 0 / -20  | 250                      | 0,77 / 0,44         | 18 | 100      | 25 / -5  | 7 / 7    |

**Legenda • Legend**

|            |                                                               |
|------------|---------------------------------------------------------------|
| <b>N</b>   | Temperatura esercizio - Working temperature: +5 °C / -5 °C    |
| <b>K</b>   | Temperatura esercizio - Working temperature: -18 °C / -25 °C  |
| <b>Tc</b>  | Temperatura cella - Coldroom temperature                      |
| <b>d</b>   | Densità di carico - Load density                              |
| <b>Csp</b> | Calore specifico prodotto - Product specific heat             |
| <b>h</b>   | Ore processo prodotto Prod. - Process duration                |
| <b>sp</b>  | Spessore isolamento - Insulation thickness                    |
| <b>Ti</b>  | Temperatura di introduzione prodotto - Product entering temp. |
| <b>mov</b> | Movimentazione giornaliera prodotto - Product daily turnover  |

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Il team TECHNOBLOCK progetta e produce da anni soluzioni per la refrigerazione industriale. Partendo da un piccolo staff di persone l'azienda oggi può contare su una rete di vendita dislocata in tutto il mondo. Il brand Technoblock infatti è conosciuto ovunque grazie alla varietà e flessibilità dei prodotti offerti. Si tratta sia di soluzioni già pronte a catalogo sia soluzioni create su misura per soddisfare in pieno le richieste del cliente. Technoblock presenta la sua gamma di unità refrigeranti

- Varietà nei tipi di applicazione.
  - Vasta scelta di modelli per ogni serie.
  - Qualità dei materiali usati.
  - Cura nella costruzione e nel collaudo.
  - Particolare attenzione allo sviluppo di nuove tecniche, all'impiego di nuovi materiali, secondo normativa europea.
- Questo fa sì che il prodotto sia affidabile, sicuro e, soprattutto, sia la giusta soluzione per ogni vostra richiesta. Facile trovare l'unità che fa al caso vostro avendo a disposizione questa scelta:

- Applicazione a parete (tampone e accavallato), a soffitto, split e bi-block.
- Compressore ermetico o semiermetico, a vite, scroll.
- Condensazione ad aria o ad acqua.
- Espansione del gas mediante tubo capillare o valvola termostatica.
- Controllo di tipo elettromeccanico o elettronico, a bordo macchina o su pannello remoto.
- Sbrinamento ad aria, a gas caldo, elettrico con resistenze.
- Evacuazione dell'acqua di condensa mediante bacinella di evaporazione o diretta.

Le nostre unità sono costruite con strutture in lamiera d'acciaio protetta contro la corrosione e verniciata a polvere epossidica o in lamiera d'acciaio plastificata. Esse danno il massimo rendimento grazie alle batterie alettate dei condensatori e degli evaporatori realizzate in rame ed alluminio ed aventi una superficie di scambio termico scrupolosamente dimensionata; sono inoltre dotate di compressori e ventilatori con protezioni termiche interne.



Since years, Technoblock team projects and produces industrial refrigerating systems. Started with a small group of people, today Technoblock can count on a worldwide sales network. The Technoblock brand is known all over the world thanks to the variety and flexible range of products. Our solutions can be both hand-listed and custom-made, to fully meet our customers requests.

Technoblock presents its range of refrigerating units

- Variety of applications.
- Wide choice of models for each series.
- Use of high quality materials and components.
- Attention to manufacturing and testing.
- Special care to the development of new technical solutions, to the use of new materials, as well as to the compliance with European standards.

This makes our products reliable, safe and, above all, the right solution to all your requirements.

It will be extremely easy for you to find the best solution that will suit you best having all these available options:

- Wall-mounted (either through-the-wall or straddle-type), roof-mounted, split type or bi-block units.
- Hermetic or semi-hermetic compressor, screw compressor or scroll compressor.
- Air-cooled or water-cooled condenser.
- Gas expansion by means of capillary tube or thermal expansion valve.
- Electromechanical or electronic control, either built-in or on a remote control panel.
- Defrost system by air, hot gas or electric heaters.
- Direct drainage of condensate or self water evaporation in a specific tray.

Our units are built with a frame made either of epoxy powder painted steel sheet protected against corrosion or plastic-coated steel sheet. The high efficiency of our units is due to the carefully sized heat exchange surface of their finned copper/aluminium condenser and evaporator coils. They are also provided with compressors and fan motors with internal thermal protections.



## LA GAMMA COMPLETA - THE COMPLETE RANGE

### MISTRAL



**Monoblocchi**  
*Monoblocks*



### BORA



**Gruppi split e bi-block**  
*Split and bi-block*



### NORTE



**Unità condensatrici**  
*Condensing units*



### TAKU



**Raffreddatori di liquido**  
*Chillers*



### ALIZÈ



**Unità evaporanti e condensatori**  
*Unit coolers and condensers*



### GHIBLI



**Conservazione vino in bottiglia**  
**Stagionatura e asciugamento**  
**Pompe di calore**  
*Wine bottle preservation units*  
*Seasoning and drying*  
*Heat pumps*





# technoblock



## MISTRAL ID Units

*Colder than ever*



PED Certification  
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