

# UNIBLOCK DB-D

I gruppi della serie **DB-D** sono caratterizzati dalla costruzione di tipo split.

La parte condensante è da installarsi a pavimento, all'esterno della cella, la parte evaporante è da installarsi a soffitto o a pavimento, all'interno della cella.

Questa caratteristica permette di superare tutti i problemi derivanti dalla mancanza di spazio all'esterno della cella che impediscono il montaggio del monoblocco.

La carrozzeria dell'unità condensatrice è costruita in lamiera di acciaio verniciata a polvere epossidica mentre l'evaporatore (di tipo cubico) è carrozzato con lamierati in alluminio.

Per i modelli DB260-DB360 gli evaporatori sono del tipo a pavimento e carrozzati in lamiera di acciaio verniciata a polvere epossidica.

Per garantire la minima dispersione di calore in cella durante la fase di sbrinatorio, i condotti di distribuzione dell'aria dell'evaporatore vengono forniti completi di sistema di chiusura automatico.

Per raggiungere il soffitto della cella i condotti dell'aria evaporatore sono disponibili (a richiesta) in varie altezze (solo per i modelli DB260-DB360).

La caratteristica principale della carrozzeria dell'unità condensatrice è fornita dalla presenza di pannelli frontali apribili per facilitare l'accesso all'impianto frigorifero.

I compressori sono di tipo alternativo ermetico o semiermetico funzionanti con refrigerante R404A.

La tipologia costruttiva dei gruppi **DB-D** ne consente l'impiego all'esterno senza alcuna particolare protezione contro gli agenti atmosferici.

L'impiantistica inoltre prevede l'utilizzo di tutti i dispositivi necessari al buon funzionamento in tali condizioni.

I gruppi DB D sono disponibili oltre che per le normali applicazioni in media e bassa temperatura, anche in esecuzione speciale denominata "Polivalente", P, che consente l'utilizzo della cella sia in media che in bassa temperatura.

La serie denominata "C", è equipaggiata con compressori alternativi semiermetici doppio stadio ed è adatta per tunnel di congelamento.

*The **DB-D** series units are characterized by split type construction.*

*The condensing part, is for installation on the ceiling or floor, outside the cold room, and the evaporating part to be installed on the ceiling, inside the cold room.*

*This feature overcomes all problems due to lack of space outside the cold room preventing assembly of the monoblock.*

*The body of the condensing unit is made from epoxide powder painted steel sheet whereas the evaporator (cube type) has aluminium sheet bodywork.*

*For DB260-DB360 the evaporators are of the floor type and have bodywork in epoxide powder painted steel sheet.*

*In order to guarantee minimum heat loss in the cold room during the defrost stage, the evaporator air distribution ducts are supplied complete with automatic closing system.*

*To reach the top of the cold room the evaporator air ducts are available (by request) in various heights (only for models DB260-DB360).*

*The main characteristic of the condensing unit body is the presence of openable front panels facilitating access to the cooling system.*

*The hermetic or semihermetic reciprocating compressors are working with refrigerant R404A.*

*The type of construction of the **DB-D** units enables their use outside without any particular protection against the atmospheric agents.*

*The system also provides for the use of all devices necessary for good operation in those conditions.*

***DB-D** units are available in the standard applications in medium and low temperature, and also in special execution called "Polivalente" P (Multipurpose) enabling use of the cold room both in medium and in low temperature.*

*The series called "C", is equipped with two-stage semihermetic reciprocating compressors and is suitable for freezing tunnels.*



## Le unità sono complete di:

- ricevitore di liquido
- spia passaggio liquido
- valvola solenoide di linea
- valvola termostatica per l'espansione del refrigerante
- sbrinatorio, di tipo elettrico, completamente automatico
- scambiatore di calore o separatore di liquido con scambiatore di calore combinato
- il pannello elettronico (IP55) include la strumentazione elettromeccanica per il funzionamento della macchina
- pressostato ventole condensatore (esclusi i modelli DB225 - DB135)
- resistenza preriscaldamento compressore
- pressostati di minima e massima pressione

## The units are complete with:

- liquid receiver
- liquid sightglass
- line solenoid valve
- thermostatic expansion valve for the refrigerant
- fully automatic, electric type defrost
- heat exchanger, or liquid separator with heat exchanger
- the electrical panel (IP55) includes electromechanical type instrumentation that supervises all the unit functions
- condenser fan pressure switch (except for DB225-DB135)
- compressor crankcase heater
- minimum and maximum pressure switches

## OPZIONI

- variatore elettronico di velocità delle ventole condensatore
- condensazione ad acqua
- pannello remoto di comando (per una o più macchine montate sulla stessa cella)
- monitor controllo della tensione di alimentazione (di serie per DB250-DB251-DB260-DB360)
- tensione di alimentazione diversa dallo standard

## OPTIONALS

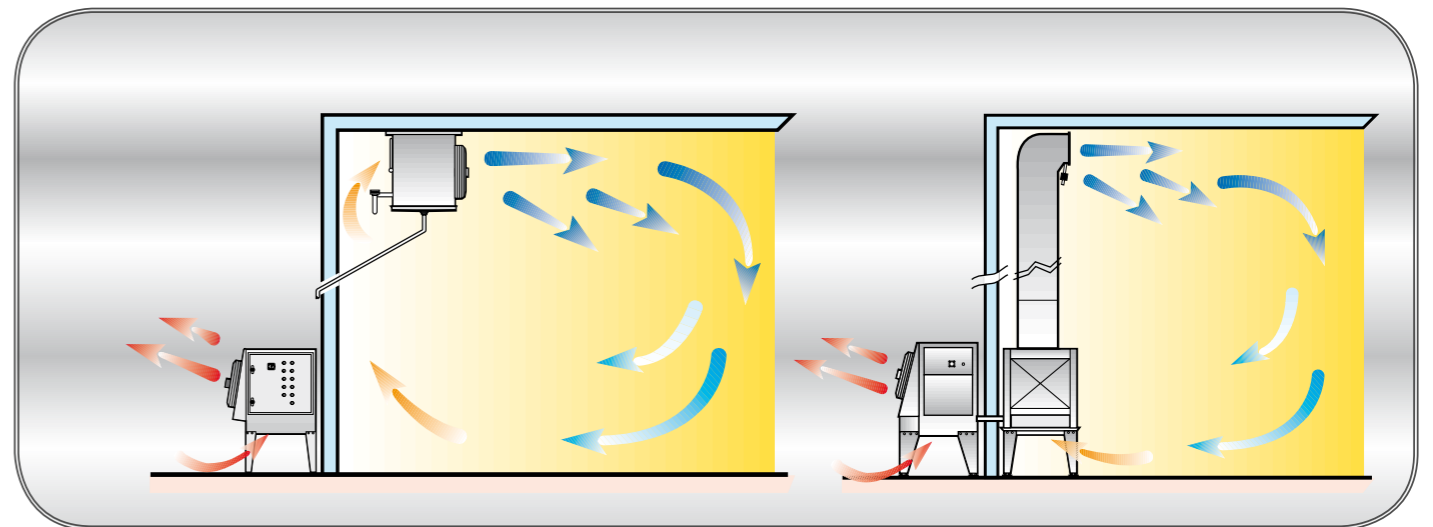
- condenser fan electronic speed variator
- water condensing
- remote control panel (for one or more machines assembled on the same cold room)
- power supply voltage control monitor (standard for DB250-DB251-DB260-DB360)
- different supply voltage

## VANTAGGI

- montaggio estremamente veloce
- riduzione dei costi e tempi di installazione
- elevata efficienza in dimensioni compatte

## ADVANTAGES

- extremely fast to assemble
- reduced installation costs and times
- high efficiency in compact dimensions



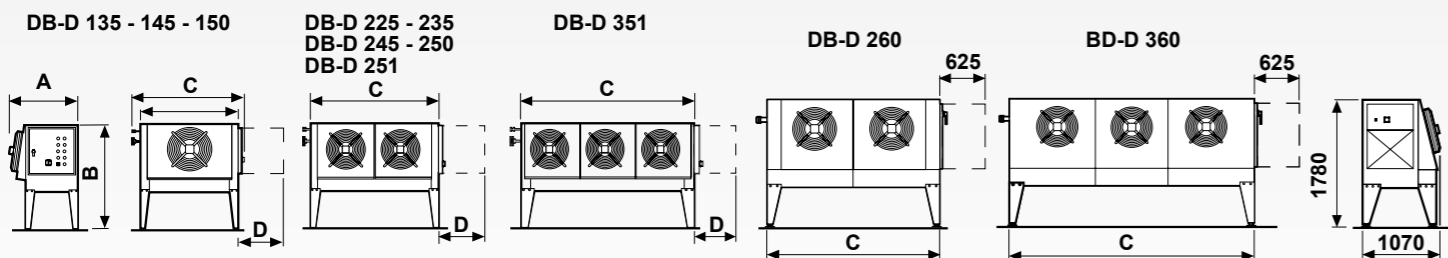


| Codice Code                               |          | MDB225ND01F       |            | MDB225TD01F       |            | MDB135TD01F        |            | MDB235TD01F        |            |
|---|----------|-------------------|------------|-------------------|------------|--------------------|------------|--------------------|------------|
| Potenza nominale<br>Nominal Power         |          | 0,75 kW E         |            | 0,92 kW E         |            | 1,5 kW E           |            | 2,2 kW E           |            |
| Refrigerante<br>Refrigerant               |          | R404A             |            | R404A             |            | R404A              |            | R404A              |            |
| Tensione<br>Voltage                       |          | 230/1~/50         |            | 400/3N~/50        |            | 400/3N~/50         |            | 400/3N~/50         |            |
| Assorbim. nom.<br>Nominal absorption      |          | 1,1 kW* - 6,9 A   |            | 1,4 kW* - 4,6 A   |            | 2,2 kW* - 5,1 A    |            | 3,3 kW* - 8 A      |            |
| Sbrinamento<br>Defrost                    |          | EL                |            | EL                |            | EL                 |            | EL                 |            |
| Portata d'aria cond.<br>Air flow cond.    |          | 1850 m³/h         |            | 1850 m³/h         |            | 2150 m³/h          |            | 3800 m³/h          |            |
| Portata d'aria evap.<br>Air flow evap.    |          | 1800 m³/h         |            | 1800 m³/h         |            | 2300 m³/h          |            | 4300 m³/h          |            |
| Freccia d'aria<br>Air throw               |          | 6 m**             |            | 6 m**             |            | 12 m**             |            | 11 m**             |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) |          | 16 Ø              |            | 16 Ø              |            | 16 Ø               |            | 22 Ø               |            |
| Mandata ( mm )<br>Liquid line ( mm )      |          | 10 Ø              |            | 10 Ø              |            | 10 Ø               |            | 10 Ø               |            |
| Massa<br>Mass                             |          | Kg= CU 95 • EU 26 |            | Kg= CU 94 • EU 29 |            | Kg= CU 103 • EU 37 |            | Kg= CU 135 • EU 51 |            |
| Tc<br>°C                                  | Ta<br>°C | Pf<br>Watt        | V100<br>m³ | Pf<br>Watt        | V100<br>m³ | Pf<br>Watt         | V100<br>m³ | Pf<br>Watt         | V100<br>m³ |
| 10  | 20       | 3070              | 42         | 3385              | 48         | 6095               | 104        | 9618               | 178        |
|   | 25       | 2876              | 38         | 3186              | 44         | 5739               | 96         | 9076               | 166        |
|   | 30       | 2690              | 35         | 2988              | 40         | 5384               | 88         | 8529               | 154        |
|   | 35       | 2511              | 32         | 2798              | 37         | 5028               | 80         | 7988               | 142        |
|   | 40       | 2339              | 28         | 2613              | 34         | 4669               | 73         | 7434               | 130        |
|   | 45       | 2171              | 25         | 2418              | 30         | 4314               | 66         | 6881               | 118        |
| 5   | 20       | 2696              | 35         | 3000              | 41         | 5371               | 86         | 8307               | 149        |
|   | 25       | 2522              | 32         | 2815              | 37         | 5042               | 80         | 7848               | 139        |
|   | 30       | 2356              | 29         | 2637              | 34         | 4712               | 74         | 7395               | 129        |
|   | 35       | 2198              | 26         | 2465              | 31         | 4385               | 67         | 6911               | 119        |
|   | 40       | 2044              | 23         | 2297              | 28         | 4056               | 61         | 6418               | 108        |
|   | 45       | 1895              | 20         | 2131              | 25         | 3732               | 55         | 5927               | 98         |
| 0   | 20       | 2351              | 29         | 2636              | 34         | 4698               | 73         | 7213               | 125        |
|   | 25       | 2199              | 26         | 2472              | 31         | 4410               | 68         | 6812               | 117        |
|   | 30       | 2053              | 23         | 2315              | 28         | 4124               | 62         | 6407               | 108        |
|   | 35       | 1914              | 21         | 2163              | 25         | 3837               | 57         | 5981               | 99         |
|   | 40       | 1780              | 18         | 2016              | 23         | 3550               | 51         | 5554               | 91         |
|   | 45       | 1649              | 17         | 1872              | 20         | 3268               | 46         | 5129               | 82         |
| -5  | 20       | 2009              | 23         | 2265              | 27         | 4031               | 60         | 6142               | 103        |
|   | 25       | 1874              | 20         | 2120              | 25         | 3774               | 55         | 5775               | 95         |
|   | 30       | 1747              | 18         | 1982              | 22         | 3517               | 50         | 5409               | 88         |
|   | 35       | 1626              | 17         | 1849              | 20         | 3258               | 46         | 5035               | 80         |
|   | 40       | 1509              | 15         | 1720              | 17         | 3001               | 41         | 4657               | 73         |
|   | 45       | 1393              | 14         | 1593              | 17         | 2740               | 36         | 4284               | 65         |



| Codice Code                               |          | MDB145TD01F        |            | MDB150TD01F        |            | MDB245ND01F         |            | MDB245TD01F         |            |
|---|----------|--------------------|------------|--------------------|------------|---------------------|------------|---------------------|------------|
| Potenza nominale<br>Nominal Power         |          | 2,2 kW E           |            | 3 kW E             |            | 3,7 kW E            |            | 5,5 kW E            |            |
| Refrigerante<br>Refrigerant               |          | R404A              |            | R404A              |            | R404A               |            | R404A               |            |
| Tensione<br>Voltage                       |          | 400/3N~/50         |            | 400/3N~/50         |            | 400/3N~/50          |            | 400/3N~/50          |            |
| Assorbim. nom.<br>Nominal absorption      |          | 4,3 kW* - 9,6 A    |            | 5 kW* - 12 A       |            | 7 kW* - 16,2 A      |            | 7,9 kW* - 18,1 A    |            |
| Sbrinamento<br>Defrost                    |          | EL                 |            | EL                 |            | EL                  |            | EL                  |            |
| Portata d'aria cond.<br>Air flow cond.    |          | 4850 m³/h          |            | 6800 m³/h          |            | 9000 m³/h           |            | 9000 m³/h           |            |
| Portata d'aria evap.<br>Air flow evap.    |          | 5000 m³/h          |            | 6800 m³/h          |            | 9300 m³/h           |            | 9000 m³/h           |            |
| Freccia d'aria<br>Air throw               |          | 20 m**             |            | 24 m**             |            | 18 m**              |            | 18 m**              |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) |          | 22 Ø               |            | 22 Ø               |            | 28 Ø                |            | 28 Ø                |            |
| Mandata ( mm )<br>Liquid line ( mm )      |          | 12 Ø               |            | 12 Ø               |            | 12 Ø                |            | 12 Ø                |            |
| Massa<br>Mass                             |          | Kg= CU 209 • EU 75 |            | Kg= CU 230 • EU 90 |            | Kg= CU 284 • EU 110 |            | Kg= CU 308 • EU 118 |            |
| Tc<br>°C                                  | Ta<br>°C | Pf<br>Watt         | V100<br>m³ | Pf<br>Watt         | V100<br>m³ | Pf<br>Watt          | V100<br>m³ | Pf<br>Watt          | V100<br>m³ |
| 10  | 20       | 12994              | 256        | 16951              | 353        | 21524               | 466        | 24194               | 540        |
|   | 25       | 12189              | 237        | 15926              | 327        | 20303               | 436        | 22726               | 496        |
|   | 30       | 11395              | 219        | 14930              | 303        | 18996               | 403        | 21243               | 459        |
|   | 35       | 10598              | 200        | 13970              | 280        | 17672               | 371        | 19766               | 423        |
|   | 40       | 9804               | 182        | 13040              | 258        | 16352               | 338        | 18317               | 387        |
|   | 45       | 9044               | 165        | 12139              | 236        | 15038               | 306        | 16914               | 352        |
| 5   | 20       | 11268              | 216        | 14734              | 298        | 18752               | 397        | 21042               | 454        |
|   | 25       | 10554              | 199        | 13807              | 276        | 17642               | 370        | 19723               | 422        |
|   | 30       | 9836               | 183        | 12903              | 254        | 16474               | 341        | 18392               | 388        |
|   | 35       | 9116               | 167        | 12045              | 234        | 15292               | 312        | 17064               | 356        |
|   | 40       | 8393               | 151        | 11218              | 215        | 14115               | 283        | 15752               | 323        |
|   | 45       | 7696               | 136        | 10422              | 196        | 12943               | 255        | 14472               | 292        |
| 0   | 20       | 9702               | 180        | 12698              | 249        | 16246               | 335        | 18159               | 383        |
|   | 25       | 9063               | 166        | 11862              | 230        | 15237               | 311        | 16983               | 354        |
|   | 30       | 8419               | 151        | 11061              | 211        | 14182               | 285        | 15795               | 324        |
|   | 35       | 7774               | 137        | 10307              | 194        | 13131               | 260        | 14609               | 295        |
|   | 40       | 7127               | 123        | 9594               | 177        | 12086               | 235        | 13442               | 267        |
|   | 45       | 6509               | 110        | 8901               | 162        | 11046               | 211        | 12310               | 240        |
| -5  | 20       | 8184               | 146        | 10728              | 203        | 13909               | 278        | 15357               | 314        |
|   | 25       | 7618               | 134        | 10027              | 187        | 13036               | 257        | 14422               | 291        |
|   | 30       | 7048               | 122        | 9333               | 172        | 12142               | 236        | 13432               | 267        |
|   | 35       | 6563               | 111        | 8692               | 157        | 11245               | 215        | 12420               | 243        |
|   | 40       | 6009               | 100        | 8087               | 144        | 10352               | 195        | 11417               | 219        |
|   | 45       | 5476               | 89         | 7486               | 131        | 9463                | 175        | 10454               | 197        |

UNITA' CONDENSANTE - CONDENSING UNITS

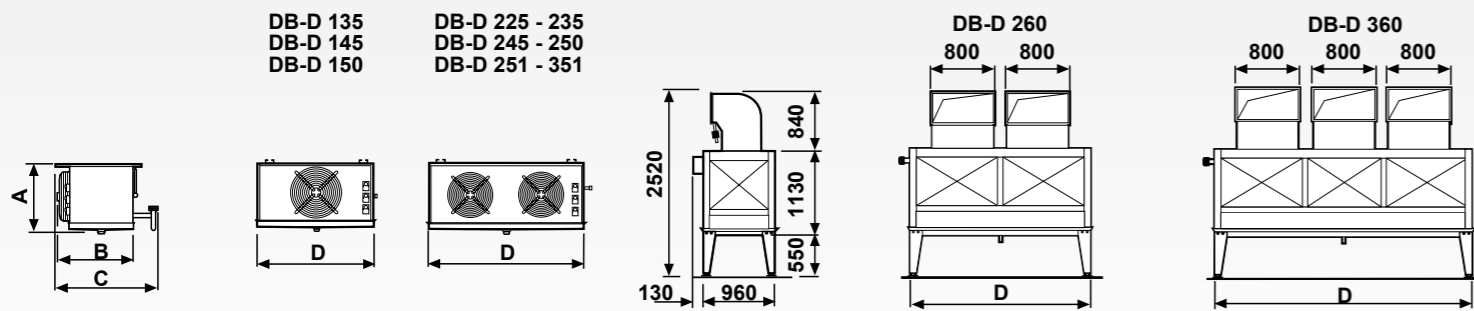


| Mod./mm  | A   | B    | C    | D   | Mod./mm  | A    | B    | C    | D   |
|----------|-----|------|------|-----|----------|------|------|------|-----|
| DB 225-D | 594 | 898  | 840  | 370 | DB 250-D | 1070 | 1465 | 1800 | 750 |
| DB 135-D | 630 | 996  | 630  | 400 | DB 251-D | 1070 | 1465 | 1800 | 750 |
| DB 235-D | 630 | 996  | 1200 | 400 | DB 351-D | 1070 | 1465 | 2500 | 750 |
| DB 145-D | 870 | 1290 | 1070 | 565 | DB 260-D | -    | -    | 2400 | -   |
| DB 150-D | 870 | 1290 | 1220 | 565 | DB 360-D | -    | -    | 3400 | -   |
| DB 245-D | 870 | 1290 | 1600 | 565 |          |      |      |      |     |



| Codice Code                               | MDB250ND01F         |            | MDB250TD01F         |            | MDB251TD01F         |            | MDB351ND01F         |            |            |
|---|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|------------|------------|
| Potenza nominale<br>Nominal Power         | 7,4 kW E            |            | 11 kW E             |            | 15 kW S             |            | 18,5 kW S           |            |            |
| Refrigerante<br>Refrigerant               | R404A               |            | R404A               |            | R404A               |            | R404A               |            |            |
| Tensione<br>Voltage                       | 400/3N~/50          |            | 400/3N~/50          |            | 400/3N~/50          |            | 400/3N~/50          |            |            |
| Assorbim. nom.<br>Nominal absorption      | 9,7 kW*- 23,2 A     |            | 11,8 kW*- 27,3 A    |            | 16,3 kW*- 35,8 A    |            | 18,3 kW*- 43,7 A    |            |            |
| Sbrinamento<br>Defrost                    | EL                  |            | EL                  |            | EL                  |            | EL                  |            |            |
| Portata d'aria cond.<br>Air flow cond.    | 13700 m³/h          |            | 13700 m³/h          |            | 13700 m³/h          |            | 20500 m³/h          |            |            |
| Portata d'aria evap.<br>Air flow evap.    | 14300 m³/h          |            | 14000 m³/h          |            | 13700 m³/h          |            | 23000 m³/h          |            |            |
| Freccia d'aria<br>Air throw               | 25 m**              |            | 25 m**              |            | 25 m**              |            | 44 m**              |            |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | 35 Ø                |            | 35 Ø                |            | 35 Ø                |            | -                   |            |            |
| Mandata ( mm )<br>Liquid line ( mm )      | 16 Ø                |            | 16 Ø                |            | 16 Ø                |            | -                   |            |            |
| Massa<br>Mass                             | Kg= CU 396 • EU 155 |            | Kg= CU 398 • EU 165 |            | Kg= CU 503 • EU 180 |            | Kg= CU 810 • EU 340 |            |            |
| Tc<br>°C                                  | Ta<br>°C            | Pf<br>Watt | V100<br>m³          | Pf<br>Watt | V100<br>m³          | Pf<br>Watt | V100<br>m³          | Pf<br>Watt | V100<br>m³ |
| 10  | 20                  | 33924      | 790                 | 38792      | 916                 | 43183      | 1028                | 60518      | 1485       |
|   | 25                  | 31905      | 738                 | 36525      | 857                 | 40782      | 966                 | 57227      | 1398       |
|   | 30                  | 29855      | 685                 | 34247      | 798                 | 38381      | 904                 | 53945      | 1312       |
|   | 35                  | 27799      | 633                 | 31976      | 740                 | 35958      | 842                 | 50639      | 1225       |
|   | 40                  | 25763      | 580                 | 29733      | 682                 | 33559      | 780                 | 47277      | 1137       |
|   | 45                  | 23772      | 530                 | 27537      | 626                 | 31179      | 719                 | 43827      | 1047       |
| 5   | 20                  | 29368      | 673                 | 33879      | 789                 | 38419      | 906                 | 52236      | 1267       |
|   | 25                  | 27561      | 626                 | 31856      | 737                 | 36253      | 850                 | 49752      | 1201       |
|   | 30                  | 25731      | 580                 | 29823      | 684                 | 34064      | 794                 | 47090      | 1132       |
|   | 35                  | 23895      | 533                 | 27792      | 632                 | 31899      | 738                 | 44269      | 1058       |
|   | 40                  | 22073      | 480                 | 25777      | 581                 | 29743      | 682                 | 41308      | 981        |
|   | 45                  | 20283      | 436                 | 23791      | 530                 | 27602      | 627                 | 38228      | 901        |
| 0   | 20                  | 25262      | 568                 | 29388      | 673                 | 33930      | 790                 | 45490      | 1090       |
|   | 25                  | 23786      | 530                 | 27613      | 628                 | 32028      | 741                 | 43390      | 1035       |
|   | 30                  | 22225      | 484                 | 25808      | 582                 | 30104      | 692                 | 41040      | 974        |
|   | 35                  | 20630      | 444                 | 23998      | 535                 | 28191      | 643                 | 38515      | 909        |
|   | 40                  | 19055      | 405                 | 22207      | 483                 | 26293      | 594                 | 35894      | 841        |
|   | 45                  | 17552      | 366                 | 20462      | 440                 | 24426      | 546                 | 33253      | 773        |
| -5  | 20                  | 21528      | 467                 | 25060      | 562                 | 29561      | 678                 | 39118      | 924        |
|   | 25                  | 20132      | 432                 | 23500      | 516                 | 27871      | 634                 | 37235      | 875        |
|   | 30                  | 18728      | 397                 | 21989      | 478                 | 26157      | 590                 | 35146      | 821        |
|   | 35                  | 17329      | 362                 | 20502      | 441                 | 24476      | 548                 | 32937      | 764        |
|   | 40                  | 15946      | 328                 | 19011      | 404                 | 22838      | 499                 | 30693      | 707        |
|   | 45                  | 14592      | 295                 | 17491      | 366                 | 21296      | 461                 | 28500      | 650        |

UNITA' EVAPORANTE - EVAPORATOR UNITS



| Codice Code                               | MDB351TD01F         |            | MDB260TD01F         |            | MDB360ND01F          |            | MDB360TD01F          |            |            |
|---|---------------------|------------|---------------------|------------|----------------------|------------|----------------------|------------|------------|
| Potenza nominale<br>Nominal Power         | 22 kW S             |            | 18,5 kW S           |            | 26 kW S              |            | 30 kW S              |            |            |
| Refrigerante<br>Refrigerant               | R404A               |            | R404A               |            | R404A                |            | R404A                |            |            |
| Tensione<br>Voltage                       | 400/3N~/50          |            | 400/3N~/50          |            | 400/3N~/50           |            | 400/3N~/50           |            |            |
| Assorbim. nom.<br>Nominal absorption      | 20,9 kW*- 48,6 A    |            | 20,7 kW*- 39,5 A    |            | 31,8 kW*- 71,4 A     |            | 36,1 kW*- 79,6 A     |            |            |
| Sbrinamento<br>Defrost                    | EL                  |            | EL                  |            | EL                   |            | EL                   |            |            |
| Portata d'aria cond.<br>Air flow cond.    | 20500 m³/h          |            | 22300 m³/h          |            | 34000 m³/h           |            | 33300 m³/h           |            |            |
| Portata d'aria evap.<br>Air flow evap.    | 23600 m³/h          |            | 20500 m³/h          |            | 31600 m³/h           |            | 30900 m³/h           |            |            |
| Freccia d'aria<br>Air throw               | 44 m**              |            | 39 m**              |            | 40 m**               |            | 39 m**               |            |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | -                   |            | 42 Ø                |            | 54 Ø                 |            | 54 Ø                 |            |            |
| Mandata ( mm )<br>Liquid line ( mm )      | -                   |            | 18 Ø                |            | 22 Ø                 |            | 22 Ø                 |            |            |
| Massa<br>Mass                             | Kg= CU 830 • EU 400 |            | Kg= CU 872 • EU 480 |            | Kg= CU 1300 • EU 660 |            | Kg= CU 1340 • EU 680 |            |            |
| Tc<br>°C                                  | Ta<br>°C            | Pf<br>Watt | V100<br>m³          | Pf<br>Watt | V100<br>m³           | Pf<br>Watt | V100<br>m³           | Pf<br>Watt | V100<br>m³ |
| 10  | 20                  | 62832      | 1547                | 64344      | 1984                 | 86046      | 2731                 | 96637      | 3105       |
|   | 25                  | 59216      | 1451                | 60879      | 1867                 | 81356      | 2568                 | 91353      | 2918       |
|   | 30                  | 55603      | 1355                | 57419      | 1751                 | 76685      | 2406                 | 86074      | 2732       |
|   | 35                  | 51983      | 1260                | 53950      | 1635                 | 71990      | 2244                 | 80782      | 2548       |
|   | 40                  | 48345      | 1165                | 50457      | 1519                 | 67226      | 2082                 | 75457      | 2363       |
|   | 45                  | 44680      | 1069                | 46927      | 1402                 | 62351      | 1916                 | 70082      | 2179       |
| 5   | 20                  | 55092      | 1342                | 56900      | 1733                 | 75815      | 2376                 | 85520      | 2713       |
|   | 25                  | 52205      | 1266                | 53890      | 1633                 | 71815      | 2238                 | 80924      | 2553       |
|   | 30                  | 49161      | 1186                | 50877      | 1533                 | 67701      | 2098                 | 76307      | 2393       |
|   | 35                  | 46001      | 1103                | 47825      | 1432                 | 63479      | 1955                 | 71628      | 2232       |
|   | 40                  | 42767      | 1019                | 44699      | 1329                 | 59153      | 1809                 | 66845      | 2069       |
|   | 45                  | 39501      | 934                 | 41463      | 1223                 | 54728      | 1661                 | 61917      | 1902       |
| 0   | 20                  | 48626      | 1172                | 50300      | 1514                 | 66892      | 2070                 | 75712      | 2372       |
|   | 25                  | 46079      | 1105                | 47686      | 1427                 | 63307      | 1949                 | 71696      | 2234       |
|   | 30                  | 43358      | 1034                | 45008      | 1339                 | 59599      | 1824                 | 67553      | 2093       |
|   | 35                  | 40537      | 961                 | 42266      | 1249                 | 55790      | 1696                 | 63311      | 1949       |
|   | 40                  | 37688      | 887                 | 39460      | 1158                 | 51904      | 1567                 | 58997      | 1804       |
|   | 45                  | 34885      | 815                 | 36589      | 1065                 | 47965      | 1436                 | 54637      | 1658       |
| -5  | 20                  | 42319      | 1007                | 43815      | 1300                 | 58328      | 1781                 | 66067      | 2042       |
|   | 25                  | 40049      | 948                 | 41490      | 1224                 | 55261      | 1679                 | 62466      | 1920       |
|   | 30                  | 37633      | 886                 | 39108      | 1146                 | 52048      | 1572                 | 58737      | 1795       |
|   | 35                  | 35167      | 822                 | 36688      | 1068                 | 48738      | 1462                 | 54952      | 1668       |
|   | 40                  | 32744      | 760                 | 34248      | 989                  | 45378      | 1351                 | 51179      | 1543       |
|   | 45                  | 30460      | 701                 | 31808      | 911                  | 42018      | 1241                 | 47488      | 1421       |

| Mod./mm  | A   | B   | C   | D    | Mod./mm  | A    | B   | C    | D    |
|----------|-----|-----|-----|------|----------|------|-----|------|------|
| DB 225-D | 455 | 413 | 560 | 960  | DB 250-D | 844  | 771 | 992  | 1769 |
| DB 135-D | 545 | 520 | 690 | 805  | DB 251-D | 844  | 771 | 992  | 1769 |
| DB 235-D | 505 | 520 | 690 | 1165 | DB 351-D | 1115 | 900 | 1040 | 2460 |
| DB 145-D | 670 | 771 | 950 | 1039 | DB 260-D | -    | -   | -    | 2400 |
| DB 150-D | 670 | 771 | 981 | 1189 | DB 360-D | -    | -   | -    | 3400 |
| DB 245-D | 670 | 771 | 992 | 1569 |          |      |     |      |      |

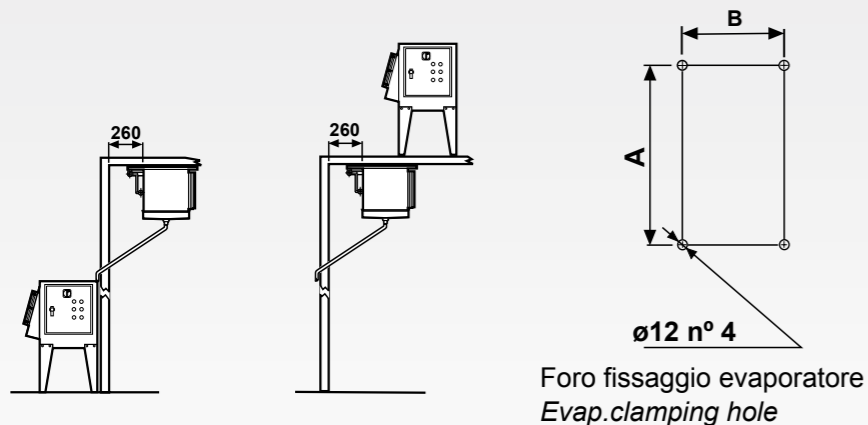


| Codice Code                               | BDB225ND01F       | BDB225TD01F        | BDB135TD01F        | BDB235TD01F        | BDB145ND01F        |         |         |         |         |         |         |
|---|-------------------|--------------------|--------------------|--------------------|--------------------|---------|---------|---------|---------|---------|---------|
| Potenza nominale<br>Nominal Power         | 1,1 kW E          | 1,5 kW E           | 2,2 kW E           | 3,7 kW S           | 3,7 kW S           |         |         |         |         |         |         |
| Refrigerante<br>Refrigerant               | R404A             | R404A              | R404A              | R404A              | R404A              |         |         |         |         |         |         |
| Tensione<br>Voltage                       | 230/1~/50         | 400/3N~/50         | 400/3N~/50         | 400/3N~/50         | 400/3N~/50         |         |         |         |         |         |         |
| Assorbim. nom.<br>Nominal absorption      | 1,1 kW*- 6,8 A    | 1,6 kW*- 4,9 A     | 1,8 kW*- 4,3 A     | 4,3 kW*-10 A       | 4,8 kW*-10,5 A     |         |         |         |         |         |         |
| Sbrinamento<br>Defrost                    | EL                | EL                 | EL                 | EL                 | EL                 |         |         |         |         |         |         |
| Portata d'aria cond.<br>Air flow cond.    | 1850 m³/h         | 1850 m³/h          | 2150 m³/h          | 3800 m³/h          | 4850 m³/h          |         |         |         |         |         |         |
| Portata d'aria evap.<br>Air flow evap.    | 1800 m³/h         | 1800 m³/h          | 2300 m³/h          | 4300 m³/h          | 5000 m³/h          |         |         |         |         |         |         |
| Freccia d'aria<br>Air throw               | 6 m**             | 6 m**              | 12 m**             | 11 m**             | 20 m**             |         |         |         |         |         |         |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | 16 Ø              | 16 Ø               | 16 Ø               | 28 Ø               | 28 Ø               |         |         |         |         |         |         |
| Mandata ( mm )<br>Liquid line ( mm )      | 10 Ø              | 10 Ø               | 10 Ø               | 10 Ø               | 12 Ø               |         |         |         |         |         |         |
| Massa<br>Mass                             | kg= CU 94 • EU 26 | kg= CU 104 • EU 29 | kg= CU 122 • EU 37 | Kg= CU 217 • EU 51 | Kg= CU 271 • EU 75 |         |         |         |         |         |         |
| Tc °C                                     | Ta °C             | Pf Watt            | V100 m³            | Pf Watt            | V100 m³            | Pf Watt | V100 m³ | Pf Watt | V100 m³ | Pf Watt | V100 m³ |
| -15                                       | 20                | 2021               | 18                 | 2497               | 27                 | 3770    | 52      | 7102    | 129     | 8872    | 180     |
|   | 25                | 1928               | 17                 | 2384               | 25                 | 3586    | 48      | 6694    | 120     | 8363    | 166     |
|   | 30                | 1834               | 15                 | 2274               | 23                 | 3410    | 45      | 6287    | 110     | 7813    | 151     |
|   | 35                | 1742               | 15                 | 2166               | 21                 | 3238    | 41      | 5881    | 100     | 7233    | 135     |
|   | 40                | 1651               | 14                 | 2053               | 19                 | 3070    | 38      | 5473    | 90      | 6642    | 120     |
|   | 45                | 1557               | 12                 | 1943               | 17                 | 2903    | 35      | 5013    | 80      | 6048    | 104     |
| -20                                       | 20                | 1701               | 14                 | 2123               | 20                 | 3186    | 40      | 6182    | 108     | 7553    | 144     |
|   | 25                | 1612               | 13                 | 2021               | 18                 | 3013    | 37      | 5835    | 99      | 7130    | 132     |
|   | 30                | 1527               | 12                 | 1923               | 17                 | 2849    | 34      | 5455    | 90      | 6664    | 120     |
|   | 35                | 1447               | 11                 | 1829               | 15                 | 2691    | 31      | 5052    | 80      | 6173    | 108     |
|   | 40                | 1370               | 10                 | 1733               | 15                 | 2540    | 28      | 4622    | 71      | 5671    | 95      |
|   | 45                | 1293               | 9,1                | 1631               | 13                 | 2391    | 25      | 4205    | 61      | 5169    | 83      |
| -25                                       | 20                | 1385               | 10                 | 1763               | 15                 | 2620    | 29      | 5217    | 84      | 6334    | 112     |
|   | 25                | 1300               | 9,2                | 1667               | 14                 | 2456    | 26      | 4912    | 77      | 5968    | 102     |
|   | 30                | 1222               | 8,3                | 1577               | 13                 | 2303    | 23      | 4565    | 69      | 5549    | 92      |
|   | 35                | 1151               | 7,5                | 1492               | 12                 | 2157    | 21      | 4195    | 61      | 5104    | 82      |
|   | 40                | 1084               | 6,8                | 1408               | 11                 | 2020    | 18      | 3808    | 53      | 4644    | 71      |
|   | 45                | 1019               | 6,1                | 1325               | 9,5                | 1885    | 16      | 3433    | 45      | 4182    | 61      |

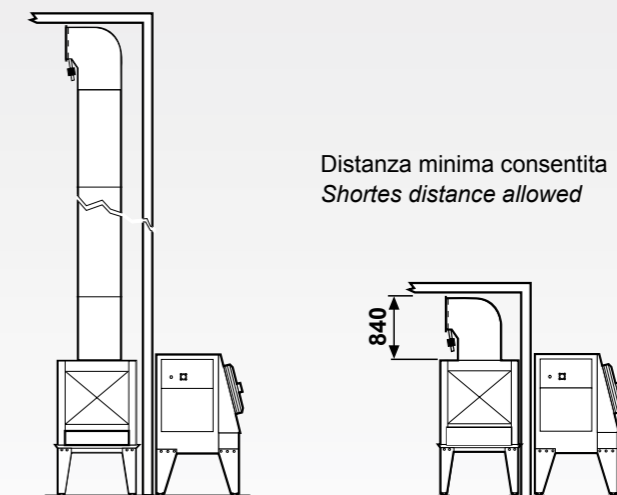


| Codice Code                               | BDB145TD01F        | BDB150ND01F        | BDB150TD01F        | BDB245ND01F         |         |         |         |         |         |
|---|--------------------|--------------------|--------------------|---------------------|---------|---------|---------|---------|---------|
| Potenza nominale<br>Nominal Power         | 5,5 kW S           | 5,5 kW S           | 7,5 kW S           | 9,2 kW S            |         |         |         |         |         |
| Refrigerante<br>Refrigerant               | R404A              | R404A              | R404A              | R404A               |         |         |         |         |         |
| Tensione<br>Voltage                       | 400/3N~/50         | 400/3N~/50         | 400/3N~/50         | 400/3N~/50          |         |         |         |         |         |
| Assorbim. nom.<br>Nominal absorption      | 6,5 kW*-13,9 A     | 7 kW*- 15,7 A      | 8,1 kW*-17,8 A     | 11,2 kW*-24,3 A     |         |         |         |         |         |
| Sbrinamento<br>Defrost                    | EL                 | EL                 | EL                 | EL                  |         |         |         |         |         |
| Portata d'aria cond.<br>Air flow cond.    | 4850 m³/h          | 6800 m³/h          | 6800 m³/h          | 9000 m³/h           |         |         |         |         |         |
| Portata d'aria evap.<br>Air flow evap.    | 5000 m³/h          | 6800 m³/h          | 6800 m³/h          | 9000 m³/h           |         |         |         |         |         |
| Freccia d'aria<br>Air throw               | 20 m**             | 24 m**             | 24m**              | 18m**               |         |         |         |         |         |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | 28 Ø               | 35 Ø               | 35 Ø               | 42 Ø                |         |         |         |         |         |
| Mandata ( mm )<br>Liquid line ( mm )      | 12 Ø               | 12 Ø               | 12 Ø               | 12 Ø                |         |         |         |         |         |
| Massa<br>Mass                             | kg= CU 286 • EU 75 | kg= CU 298 • EU 88 | kg= CU 305 • EU 93 | kg= CU 422 • EU 110 |         |         |         |         |         |
| Tc °C                                     | Ta °C              | Pf Watt            | V100 m³            | Pf Watt             | V100 m³ | Pf Watt | V100 m³ | Pf Watt | V100 m³ |
| -15                                       | 20                 | 10839              | 237                | 12342               | 285     | 14530   | 354     | 17993   | 467     |
|   | 25                 | 10164              | 217                | 11631               | 263     | 13610   | 325     | 16759   | 428     |
|   | 30                 | 9488               | 198                | 10878               | 240     | 12717   | 297     | 15527   | 387     |
|   | 35                 | 8814               | 179                | 10094               | 216     | 11798   | 268     | 14254   | 346     |
|   | 40                 | 8139               | 160                | 9292                | 192     | 10860   | 239     | 12970   | 305     |
|   | 45                 | 7476               | 141                | 8467                | 169     | 9923    | 211     | 11704   | 265     |
| -20                                       | 20                 | 9364               | 194                | 10550               | 230     | 12610   | 293     | 15555   | 388     |
|   | 25                 | 8786               | 178                | 9933                | 211     | 11860   | 270     | 14507   | 354     |
|   | 30                 | 8179               | 161                | 9262                | 191     | 11070   | 245     | 13404   | 319     |
|   | 35                 | 7560               | 144                | 8689                | 175     | 10252   | 221     | 12262   | 282     |
|   | 40                 | 6942               | 127                | 8009                | 156     | 9422    | 196     | 11358   | 254     |
|   | 45                 | 6347               | 112                | 7305                | 137     | 8604    | 173     | 10309   | 222     |
| -25                                       | 20                 | 7986               | 155                | 8971                | 183     | 10816   | 238     | 13418   | 319     |
|   | 25                 | 7463               | 141                | 8466                | 169     | 10173   | 218     | 12543   | 291     |
|   | 30                 | 6907               | 126                | 7902                | 153     | 9484    | 198     | 11612   | 262     |
|   | 35                 | 6437               | 114                | 7263                | 136     | 8767    | 177     | 10651   | 233     |
|   | 40                 | 5901               | 101                | 6634                | 119     | 8043    | 157     | 9652    | 203     |
|   | 45                 | 5399               | 89                 | 6000                | 104     | 7516    | 143     | 8715    | 176     |

DB-D 260 - 360



| Mod./mm    | A    | B   |
|------------|------|-----|
| DB225-D    | 760  | 450 |
| DB135-D    | 605  | 540 |
| DB235-D    | 965  | 540 |
| DB145-D    | 796  | 740 |
| DB150-D    | 946  | 740 |
| DB245-D    | 1326 | 740 |
| DB250-D    | 1526 | 740 |
| DB251-D    | 1526 | 740 |
| C DB 150-D | 946  | 740 |
| C DB 250-D | 1526 | 740 |



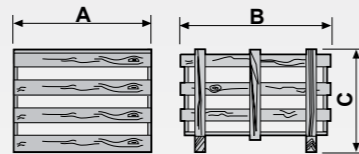


| Codice Code                               | BDB245TD01F            | BDB250ND01F            | BDB250TD01F            | BDB251TD01F            | BDB351ND01F            |         |         |         |         |         |         |
|---|------------------------|------------------------|------------------------|------------------------|------------------------|---------|---------|---------|---------|---------|---------|
| Potenza nominale<br>Nominal Power         | 11 kW S                | 15 kW S                | 18,5 kW S              | 22 kW S                | 29,5 kW S              |         |         |         |         |         |         |
| Refrigerante<br>Refrigerant               | R404A                  | R404A                  | R404A                  | R404A                  | R404A                  |         |         |         |         |         |         |
| Tensione<br>Voltage                       | 400/3N~/50             | 400/3N~/50             | 400/3N~/50             | 400/3N~/50             | 400/3N~/50             |         |         |         |         |         |         |
| Assorbim. nom.<br>Nominal absorption      | 12,3 kW* - 26,8 A      | 15 kW* - 32,8 A        | 18,3 kW* - 39,8 A      | 20,2 kW* - 43,4 A      | 26,3 kW* - 59 A        |         |         |         |         |         |         |
| Sbrinamento<br>Defrost                    | EL                     | EL                     | EL                     | EL                     | EL                     |         |         |         |         |         |         |
| Portata d'aria cond.<br>Air flow cond.    | 9000 m³/h              | 13700 m³/h             | 13700 m³/h             | 13700 m³/h             | 20500 m³/h             |         |         |         |         |         |         |
| Portata d'aria evap.<br>Air flow evap.    | 9000 m³/h              | 14300 m³/h             | 14000 m³/h             | 13700 m³/h             | 23000 m³/h             |         |         |         |         |         |         |
| Freccia d'aria<br>Air throw               | 18 m**                 | 25 m**                 | 25 m**                 | 25 m**                 | 44 m**                 |         |         |         |         |         |         |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | 42 Ø                   | 54 Ø                   | 54 Ø                   | 54 Ø                   | -                      |         |         |         |         |         |         |
| Mandata ( mm )<br>Liquid line ( mm )      | 12 Ø                   | 16 Ø                   | 16 Ø                   | 16 Ø                   | -                      |         |         |         |         |         |         |
| Massa<br>Mass                             | CU 422 kg<br>EU 118 kg | CU 503 kg<br>EU 155 kg | CU 555 kg<br>EU 165 kg | CU 555 kg<br>EU 180 kg | CU 880 kg<br>EU 340 kg |         |         |         |         |         |         |
| Tc °C                                     | Ta °C                  | Pf Watt                | V100 m³                | Pf Watt                | V100 m³                | Pf Watt | V100 m³ | Pf Watt | V100 m³ | Pf Watt | V100 m³ |
| -15                                       | 20                     | 20406                  | 570                    | 27579                  | 823                    | 32540   | 1003    | 35157   | 1099    | 48022   | 1583    |
|   | 25                     | 19019                  | 522                    | 25776                  | 759                    | 30425   | 926     | 32928   | 1017    | 45245   | 1477    |
|   | 30                     | 17633                  | 457                    | 23917                  | 692                    | 28309   | 849     | 30695   | 935     | 42458   | 1371    |
|   | 35                     | 16248                  | 411                    | 21997                  | 625                    | 26192   | 773     | 28462   | 855     | 39662   | 1266    |
|   | 40                     | 14868                  | 366                    | 20007                  | 555                    | 24078   | 699     | 26232   | 775     | 36862   | 1161    |
|   | 45                     | 13496                  | 321                    | 17942                  | 484                    | 21967   | 624     | 24009   | 696     | 34059   | 1058    |
| -20                                       | 20                     | 17873                  | 481                    | 23588                  | 681                    | 28248   | 847     | 30878   | 943     | 41400   | 1331    |
|   | 25                     | 16680                  | 425                    | 22210                  | 633                    | 26415   | 781     | 28858   | 870     | 38997   | 1242    |
|   | 30                     | 15440                  | 384                    | 20691                  | 579                    | 24550   | 716     | 26839   | 797     | 36516   | 1149    |
|   | 35                     | 14182                  | 344                    | 19069                  | 523                    | 22661   | 649     | 24825   | 725     | 33999   | 1056    |
|   | 40                     | 12932                  | 303                    | 17384                  | 448                    | 20756   | 582     | 22822   | 654     | 31487   | 965     |
|   | 45                     | 11719                  | 265                    | 15674                  | 392                    | 18844   | 515     | 20835   | 585     | 29023   | 875     |
| -25                                       | 20                     | 15509                  | 387                    | 19981                  | 554                    | 24312   | 707     | 26449   | 783     | 35486   | 1111    |
|   | 25                     | 14397                  | 351                    | 18842                  | 515                    | 22795   | 653     | 24754   | 723     | 33385   | 1033    |
|   | 30                     | 13299                  | 315                    | 17511                  | 452                    | 21200   | 597     | 23012   | 661     | 31221   | 955     |
|   | 35                     | 12241                  | 282                    | 16054                  | 405                    | 19565   | 540     | 21182   | 600     | 29038   | 876     |
|   | 40                     | 11252                  | 251                    | 14536                  | 355                    | 17929   | 483     | 19624   | 542     | 26879   | 798     |
|   | 45                     | 10361                  | 224                    | 13022                  | 306                    | 16330   | 414     | 18097   | 490     | 24788   | 724     |

### DBD 225 - 135 - 235

UNITÀ MOTOCONDENSANTE • CONDENSING UNIT + EVAPORATORE • EVAPORATOR

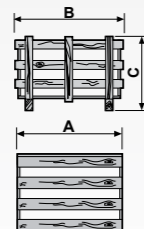
| Mod./mm | A   | B    | C    | Kg | Volume |
|---------|-----|------|------|----|--------|
| DB225-D | 710 | 1290 | 1535 | 78 | 1,40   |
| DB135-D | 810 | 1130 | 1765 | 87 | 1,61   |
| DB235-D | 810 | 1490 | 1765 | 99 | 2,13   |



### DBD 145 - 150 - 245 - 250 - 251 - 351

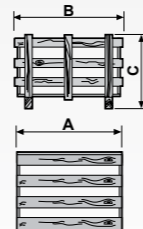
UNITÀ MOTOCONDENSANTE • CONDENSING UNIT

| Mod./mm     | A    | B    | C    | Kg  | Volume |
|-------------|------|------|------|-----|--------|
| DB145-D     | 990  | 1390 | 1485 | 95  | 2,04   |
| DB150-D     | 990  | 1540 | 1485 | 100 | 2,26   |
| DB245-D     | 990  | 1890 | 1485 | 120 | 2,77   |
| DB250 251-D | 1190 | 2090 | 1665 | 155 | 4,19   |
| DB351-D     | 1240 | 2800 | 1700 | 178 | 5,9    |



EVAPORATORE • EVAPORATOR

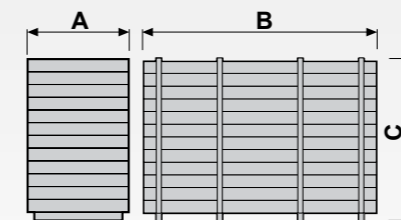
| Mod./mm     | A    | B    | C    | Kg  | Volume |
|-------------|------|------|------|-----|--------|
| DB145-D     | 1140 | 1240 | 835  | 76  | 1,18   |
| DB150-D     | 1140 | 1390 | 835  | 76  | 1,32   |
| DB245-D     | 1140 | 1720 | 835  | 94  | 1,63   |
| DB250 251-D | 1170 | 1910 | 1110 | 120 | 2,48   |
| DB351-D     | 1250 | 2650 | 1350 | 170 | 4,5    |



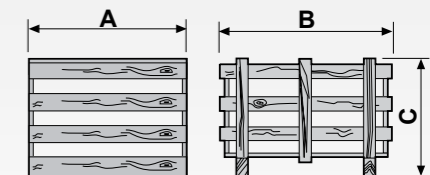
| Codice Code                               | BDB351ND01F            | BDB260ND01F            | BDB260TD01F             | BDB360ND01F             | BDB360TD01F             |         |         |         |         |         |         |
|---|------------------------|------------------------|-------------------------|-------------------------|-------------------------|---------|---------|---------|---------|---------|---------|
| Potenza nominale<br>Nominal Power         | 37 kW S                | 22 kW S                | 30 kW S                 | 37 kW S                 | 44,5 kW S               |         |         |         |         |         |         |
| Refrigerante<br>Refrigerant               | R404A                  | R404A                  | R404A                   | R404A                   | R404A                   |         |         |         |         |         |         |
| Tensione<br>Voltage                       | 400/3N~/50             | 400/3N~/50             | 400/3N~/50              | 400/3N~/50              | 400/3N~/50              |         |         |         |         |         |         |
| Assorbim. nom.<br>Nominal absorption      | 29,2 kW* - 64,5 A      | 23,8 kW* - 52,7 A      | 28,1 kW* - 60,8 A       | 40,7 kW* - 88,6 A       | 43,7 kW* - 97,5 A       |         |         |         |         |         |         |
| Sbrinamento<br>Defrost                    | EL                     | EL                     | EL                      | EL                      | EL                      |         |         |         |         |         |         |
| Portata d'aria cond.<br>Air flow cond.    | 20500 m³/h             | 22800 m³/h             | 22300 m³/h              | 34000 m³/h              | 33300 m³/h              |         |         |         |         |         |         |
| Portata d'aria evap.<br>Air flow evap.    | 23600 m³/h             | 22400 m³/h             | 21800 m³/h              | 33600 m³/h              | 32800 m³/h              |         |         |         |         |         |         |
| Freccia d'aria<br>Air throw               | 44 m**                 | 42 m**                 | 41m**                   | 42m**                   | 41m**                   |         |         |         |         |         |         |
| Aspirazione ( mm )<br>Suction pipe ( mm ) | -                      | 54 Ø                   | 54 Ø                    | 64 Ø                    | 64 Ø                    |         |         |         |         |         |         |
| Mandata ( mm )<br>Liquid line ( mm )      | -                      | 18 Ø                   | 18 Ø                    | 22 Ø                    | 22 Ø                    |         |         |         |         |         |         |
| Massa<br>Mass                             | CU 920 kg<br>EU 400 kg | CU 895 kg<br>EU 465 kg | CU 1040 kg<br>EU 480 kg | CU 1340 kg<br>EU 680 kg | CU 1350 kg<br>EU 670 kg |         |         |         |         |         |         |
| Tc °C                                     | Ta °C                  | Pf Watt                | V100 m³                 | Pf Watt                 | V100 m³                 | Pf Watt | V100 m³ | Pf Watt | V100 m³ | Pf Watt | V100 m³ |
| -15                                       | 20                     | 58002                  | 1975                    | 41231                   | 1487                    | 48866   | 1820    | 65323   | 2576    | 74056   | 2998    |
|   | 25                     | 54646                  | 1841                    | 38502                   | 1371                    | 45779   | 1684    | 61079   | 2376    | 69299   | 2766    |
|   | 30                     | 51280                  | 1710                    | 35852                   | 1258                    | 42713   | 1550    | 56857   | 2180    | 64414   | 2533    |
|   | 35                     | 47904                  | 1579                    | 33212                   | 1148                    | 39645   | 1419    | 52631   | 1988    | 59551   | 2305    |
|   | 40                     | 44522                  | 1450                    | 30510                   | 1037                    | 36548   | 1288    | 48376   | 1799    | 54856   | 2090    |
|   | 45                     | 41163                  | 1322                    | 27678                   | 922                     | 33399   | 1156    | 44064   | 1609    | 50480   | 1892    |
| -20                                       | 20                     | 50003                  | 1660                    | 35017                   | 1224                    | 42347   | 1535    | 56658   | 2172    | 63625   | 2496    |
|   | 25                     | 47101                  | 1548                    | 33026                   | 1141                    | 39741   | 1423    | 53064   | 2008    | 59850   | 2319    |
|   | 30                     | 44105                  | 1434                    | 30849                   | 1051                    | 37073   | 1310    | 49378   | 1843    | 55728   | 2129    |
|   | 35                     | 41064                  | 1319                    | 28522                   | 956                     | 34332   | 1195    | 45599   | 1676    | 51514   | 1938    |
|   | 40                     | 38030                  | 1205                    | 26083                   | 858                     | 31507   | 1078    | 41729   | 1509    | 47464   | 1758    |
|   | 45                     | 35053                  | 1095                    | 23569                   | 757                     | 28589   | 959     | 37765   | 1339    | 43834   | 1599    |
| -25                                       | 20                     | 42860                  | 1387                    | 29841                   | 1009                    | 36353   | 1280    | 48759   | 1816    | 54866   | 2090    |
|   | 25                     | 40321                  | 1290                    | 28227                   | 944                     | 34324   | 1194    | 45935   | 1691    | 51759   | 1949    |
|   | 30                     | 37708                  | 1193                    | 26395                   | 870                     | 32053   | 1100    | 42796   | 1554    | 48364   | 1798    |
|   | 35                     | 35072                  | 1096                    | 24402                   | 790                     | 29626   | 1001    | 39469   | 1412    | 44741   | 1638    |
|   | 40                     | 32464                  | 1000                    | 22304                   | 708                     | 27129   | 900     | 36081   | 1268    | 40950   | 1475    |
|   | 45                     | 29938                  | 908                     | 20159                   | 623                     | 24651   | 800     | 32760   | 1129    | 37050   | 1309    |

### DBD 260 - 360

UNITÀ MOTOCONDENSANTE • CONDENSING UNIT



UNITA' EVAPORATORE • EVAPORATOR UNITS



| Mod./mm | A    | B    | C    | Kg  | Volume | Mod./mm  | A    | B    | C    | Kg  | Volume |
|---------|------|------|------|-----|--------|----------|------|------|------|-----|--------|
| DB260-D | 1190 | 2790 | 1575 | 209 | 5,22   | BDB260-D | 1180 | 2690 | 1880 | 200 | 5,91   |
| DB360-D | 1190 | 3790 | 1575 | 285 | 7,10   | DB360-D  | 1180 | 3690 | 1880 | 365 | 8,12   |



| Codice Code                               |          | PDB135T001F         |            | PDB235T001F         |            | PDB145T001F         |            | PDB150T001F         |            |
|---|----------|---------------------|------------|---------------------|------------|---------------------|------------|---------------------|------------|
| Potenza nominale<br>Nominal Power         |          | 2,2 kW E            |            | 3,7 kW S            |            | 5,5 kW S            |            | 7,5 kW S            |            |
| Refrigerante<br>Refrigerant               |          | R404A               |            | R404A               |            | R404A               |            | R404A               |            |
| Tensione<br>Voltage                       |          | 400/3N~/50          |            | 400/3N~/50          |            | 400/3N~/50          |            | 400/3N~/50          |            |
| Assorbim. nom.<br>Nominal absorption      |          | 2,9 kW* - 6,4 A     |            | 5,3 kW* - 12 A      |            | 6,7 kW* - 14,3 A    |            | 10,1 kW* - 21,7 A   |            |
| Sbrinamento<br>Defrost                    |          | EL                  |            | EL                  |            | EL                  |            | EL                  |            |
| Portata d'aria cond.<br>Air flow cond.    |          | 2150 m³/h           |            | 3800 m³/h           |            | 4850 m³/h           |            | 6800 m³/h           |            |
| Portata d'aria evap.<br>Air flow evap.    |          | 2300 m³/h           |            | 4300 m³/h           |            | 5000 m³/h           |            | 6800 m³/h           |            |
| Freccia d'aria<br>Air throw               |          | 12m**               |            | 11 m**              |            | 20 m**              |            | 24 m**              |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) |          | 16 Ø                |            | 28 Ø                |            | 28 Ø                |            | 35 Ø                |            |
| Mandata ( mm )<br>Liquid line ( mm )      |          | 10 Ø                |            | 10 Ø                |            | 12 Ø                |            | 12 Ø                |            |
| Massa<br>Mass                             |          | Kg = CU 122 • EU 37 |            | Kg = CU 257 • EU 51 |            | Kg = CU 286 • EU 75 |            | Kg = CU 335 • EU 93 |            |
| Tc<br>°C                                  | Ta<br>°C | Pf<br>Watt          | V100<br>m³ | Pf<br>Watt          | V100<br>m³ | Pf<br>Watt          | V100<br>m³ | Pf<br>Watt          | V100<br>m³ |
| 5   | 20       | 5154                | 75         | 9161                | 155        | 12670               | 230        | 17157               | 329        |
|   | 25       | 4847                | 70         | 8637                | 144        | 11922               | 213        | 16095               | 305        |
|   | 30       | 4541                | 65         | 8111                | 134        | 11176               | 197        | 15051               | 282        |
|   | 35       | 4234                | 59         | 7586                | 123        | 10429               | 181        | 13993               | 258        |
|   | 40       | 3926                | 54         | 7062                | 112        | 9619                | 164        | 12915               | 234        |
|   | 45       | 3620                | 48         | 6536                | 102        | 8760                | 146        | 11818               | 210        |
| 0   | 20       | 4489                | 64         | 8077                | 133        | 11293               | 199        | 15199               | 285        |
|   | 25       | 4224                | 59         | 7633                | 124        | 10587               | 184        | 14269               | 264        |
|   | 30       | 3974                | 54         | 7191                | 115        | 9933                | 170        | 13339               | 244        |
|   | 35       | 3712                | 50         | 6707                | 105        | 9240                | 156        | 12388               | 223        |
|   | 40       | 3444                | 45         | 6199                | 96         | 8485                | 141        | 11409               | 202        |
|   | 45       | 3179                | 41         | 5668                | 85         | 7667                | 124        | 10404               | 180        |
| -5  | 20       | 3823                | 52         | 6992                | 111        | 9854                | 169        | 13239               | 241        |
|   | 25       | 3616                | 48         | 6630                | 104        | 9242                | 156        | 12421               | 223        |
|   | 30       | 3389                | 44         | 6255                | 97         | 8669                | 144        | 11602               | 206        |
|   | 35       | 3150                | 40         | 5841                | 89         | 8046                | 132        | 10757               | 188        |
|   | 40       | 2905                | 36         | 5405                | 81         | 7354                | 118        | 9880                | 169        |
|   | 45       | 2661                | 32         | 4948                | 72         | 6601                | 103        | 8973                | 151        |
| -15                                       | 20       | 3977                | 57         | 7622                | 145        | 10470               | 227        | 14440               | 353        |
|   | 25       | 3710                | 51         | 7195                | 134        | 9807                | 208        | 13548               | 324        |
|   | 30       | 3444                | 46         | 6749                | 123        | 9102                | 187        | 12657               | 295        |
|   | 35       | 3177                | 40         | 6290                | 110        | 8388                | 167        | 11767               | 267        |
|   | 40       | 2909                | 35         | 5823                | 99         | 7700                | 148        | 10875               | 240        |
|   | 45       | 2642                | 30         | 5365                | 89         | 7121                | 132        | 9985                | 214        |
| -20                                       | 20       | 3405                | 45         | 6631                | 119        | 9116                | 187        | 12651               | 295        |
|   | 25       | 3147                | 39         | 6247                | 109        | 8544                | 171        | 11860               | 270        |
|   | 30       | 2886                | 34         | 5835                | 99         | 7903                | 153        | 11070               | 245        |
|   | 35       | 2625                | 29         | 5406                | 89         | 7232                | 135        | 10280               | 222        |
|   | 40       | 2376                | 25         | 4969                | 79         | 6568                | 118        | 9490                | 199        |
|   | 45       | 2145                | 21         | 4543                | 69         | 6034                | 104        | 8700                | 175        |
| -25                                       | 20       | 2833                | 33         | 5641                | 94         | 7761                | 149        | 10861               | 239        |
|   | 25       | 2584                | 29         | 5300                | 86         | 7283                | 136        | 10173               | 218        |
|   | 30       | 2332                | 24         | 4921                | 77         | 6703                | 121        | 9484                | 198        |
|   | 35       | 2084                | 19         | 4521                | 68         | 6074                | 105        | 8794                | 178        |
|   | 40       | 1854                | 15         | 4114                | 59         | 5438                | 90         | 8105                | 159        |
|   | 45       | 1626                | 14         | 3723                | 51         | 4947                | 78         | 7416                | 140        |



| Codice Code                               |          | PDB245T001F          |            | PDB251T001F          |            | PDB260T001F           |            | PDB360T001F           |            |
|---|----------|----------------------|------------|----------------------|------------|-----------------------|------------|-----------------------|------------|
| Potenza nominale<br>Nominal Power         |          | 11 kW S              |            | 22 kW S              |            | 44,5 kW S             |            | 60 kW S               |            |
| Refrigerante<br>Refrigerant               |          | R404A                |            | R404A                |            | R404A                 |            | R404A                 |            |
| Tensione<br>Voltage                       |          | 400/3N~/50           |            | 400/3N~/50           |            | 400/3N~/50            |            | 400/3N~/50            |            |
| Assorbim. nom.<br>Nominal absorption      |          | 13,9 kW* - 29,5 A    |            | 19,7 kW* - 42,4 A    |            | 32 kW* - 70,6 A       |            | 42,7 kW* - 95,6 A     |            |
| Sbrinamento<br>Defrost                    |          | EL                   |            | EL                   |            | EL                    |            | EL                    |            |
| Portata d'aria cond.<br>Air flow cond.    |          | 9000 m³/h            |            | 13700 m³/h           |            | 22300 m³/h            |            | 33300 m³/h            |            |
| Portata d'aria evap.<br>Air flow evap.    |          | 9000 m³/h            |            | 13700 m³/h           |            | 21800 m³/h            |            | 32800 m³/h            |            |
| Freccia d'aria<br>Air throw               |          | 18m**                |            | 25 m**               |            | 41m**                 |            | 41m**                 |            |
| Aspirazione ( mm )<br>Suction pipe ( mm ) |          | 42 Ø                 |            | 54 Ø                 |            | 54 Ø                  |            | 64 Ø                  |            |
| Mandata ( mm )<br>Liquid line ( mm )      |          | 12 Ø                 |            | 16 Ø                 |            | 18 Ø                  |            | 22 Ø                  |            |
| Massa<br>Mass                             |          | Kg = CU 422 • EU 118 |            | Kg = CU 571 • EU 180 |            | Kg = CU 1060 • EU 480 |            | Kg = CU 1540 • EU 680 |            |
| Tc<br>°C                                  | Ta<br>°C | Pf<br>Watt           | V100<br>m³ | Pf<br>Watt           | V100<br>m³ | Pf<br>Watt            | V100<br>m³ | Pf<br>Watt            | V100<br>m³ |
| 5   | 20       | 24176                | 491        | 41620                | 900        | 58635                 | 1630       | 86552                 | 2502       |
|   | 25       | 22625                | 450        | 38988                | 838        | 54801                 | 1513       | 81173                 | 2331       |
|   | 30       | 21043                | 413        | 36370                | 776        | 50967                 | 1398       | 75860                 | 2163       |
|   | 35       | 19441                | 378        | 33750                | 714        | 47133                 | 1282       | 70536                 | 1997       |
|   | 40       | 17828                | 340        | 31111                | 652        | 43298                 | 1168       | 65125                 | 1829       |
|   | 45       | 16214                | 305        | 28437                | 591        | 39465                 | 1054       | 59552                 | 1658       |
| 0   | 20       | 21502                | 424        | 37120                | 794        | 52790                 | 1452       | 77801                 | 2224       |
|   | 25       | 20116                | 392        | 34801                | 740        | 49180                 | 1344       | 72803                 | 2068       |
|   | 30       | 18696                | 360        | 32492                | 685        | 45571                 | 1236       | 67875                 | 1915       |
|   | 35       | 17246                | 328        | 30155                | 631        | 41962                 | 1127       | 62934                 | 1762       |
|   | 40       | 15775                | 295        | 27749                | 574        | 38354                 | 1021       | 57898                 | 1608       |
|   | 45       | 14287                | 262        | 25237                | 516        | 34744                 | 915        | 52686                 | 1450       |
| -5  | 20       | 18830                | 363        | 32623                | 688        | 45524                 | 1234       | 68639                 | 1938       |
|   | 25       | 17603                | 336        | 30602                | 641        | 42445                 | 1142       | 64091                 | 1797       |
|   | 30       | 16335                | 308        | 28562                | 593        | 39428                 | 1053       | 59613                 | 1660       |
|   | 35       | 15032                | 278        | 26467                | 544        | 36401                 | 964        | 55123                 | 1523       |
|   | 40       | 13702                | 248        | 24287                | 494        | 33289                 | 872        | 50540                 | 1385       |
|   | 45       | 12351                | 219        | 21988                | 435        | 30019                 | 776        | 45783                 | 1242       |
| -15                                       | 20       | 20293                | 565        | 34848                | 1088       | 48887                 | 1821       | 71321                 | 2864       |
|   | 25       | 18928                | 518        | 32745                | 1010       | 45447                 | 1670       | 66983                 | 2655       |
|   | 30       | 17575                | 454        | 30641                | 934        | 42004                 | 1520       | 62643                 | 2449       |
|   | 35       | 16220                | 410        | 28537                | 858        | 38562                 | 1372       | 58304                 | 2247       |
|   | 40       | 14849                | 366        | 26432                | 782        | 35122                 | 1228       | 53965                 | 2049       |
|   | 45       | 13449                | 320        | 24329                | 708        | 31688                 | 1086       | 49626                 | 1854       |
| -20                                       | 20       | 17915                | 483        | 30702                | 936        | 43032                 | 1565       | 63251                 | 2478       |
|   | 25       | 16678                | 425        | 28768                | 866        | 40007                 | 1435       | 59377                 | 2297       |
|   | 30       | 15441                | 384        | 26833                | 797        | 36982                 | 1306       | 55503                 | 2119       |
|   | 35       | 14203                | 344        | 24898                | 728        | 33958                 | 1179       | 51629                 | 1944       |
|   | 40       | 12966                | 304        | 22962                | 659        | 30933                 | 1055       | 47755                 | 1771       |
|   | 45       | 11729                | 266        | 21027                | 591        | 27907                 | 931        | 43881                 | 1601       |
| -25                                       | 20       | 15538                | 388        | 26556                | 787        | 37142                 | 1313       | 55171                 | 2104       |
|   | 25       | 14423                | 352        | 24319                | 724        | 34388                 | 1197       | 51799                 | 1951       |
|   | 30       | 13307                | 316        | 23024                | 661        | 31837                 | 1091       | 48329                 | 1796       |
|   | 35       | 12192                | 280        | 21258                | 599        | 29357                 | 990        | 44731                 | 1638       |
|   | 40       | 11077                | 246        | 19493                | 538        | 26821                 | 887        | 40977                 | 1476       |
|   | 45       | 9963                 | 212        | 17727                | 476        | 24098                 | 778        | 37040                 | 1147       |



| Codice Code                            |         | CDB150N001F           |           | CDB150T001F           |           | CDB250N001F            |           | CDB250T001F             |           |
|--|---------|-----------------------|-----------|-----------------------|-----------|------------------------|-----------|-------------------------|-----------|
| Potenza nominale Nominal Power         |         | 5,5 kW DS             |           | 7,5 kW DS             |           | 11 kW DS               |           | 18,5 kW DS              |           |
| Refrigerante Refrigerant               |         | R404A                 |           | R404A                 |           | R404A                  |           | R404A                   |           |
| Tensione Voltage                       |         | 400/3N~/50            |           | 400/3N~/50            |           | 400/3N~/50             |           | 400/3N~/50              |           |
| Assorbim. nom. Nominal absorption      |         | 4,8 kW*<br>11,2 A     |           | 6,7 kW*<br>15,6 A     |           | 10,3 kW*<br>24,4 A     |           | 12,2 kW*<br>27,9 A      |           |
| Sbrinamento Defrost                    |         | EL                    |           | EL                    |           | EL                     |           | EL                      |           |
| Portata d'aria cond. Air flow cond.    |         | 6800 m³/h             |           | 6800 m³/h             |           | 13700 m³/h             |           | 13700 m³/h              |           |
| Portata d'aria evap. Air flow evap.    |         | 7300 m³/h             |           | 7300 m³/h             |           | 15300 m³/h             |           | 15300 m³/h              |           |
| Freccia d'aria Air throw               |         | 26 m**                |           | 26 m**                |           | 33 m**                 |           | 33 m**                  |           |
| Aspirazione ( mm ) Suction pipe ( mm ) |         | 35 Ø                  |           | 35 Ø                  |           | 42 Ø                   |           | 54 Ø                    |           |
| Mandata ( mm ) Liquid Line ( mm )      |         | 12 Ø                  |           | 12 Ø                  |           | 16 Ø                   |           | 16 Ø                    |           |
| Massa Mass                             |         | CU 377 kg<br>EU 90 kg |           | CU 640 kg<br>EU 90 kg |           | CU 650 kg<br>EU 160 kg |           | CU 1110 kg<br>EU 160 kg |           |
| Tev °C                                 | Tcnd °C | Pf Watt               | Pf Kcal/h | Pf Watt               | Pf Kcal/h | Pf Watt                | Pf Kcal/h | Pf Watt                 | Pf Kcal/h |
| -30                                    | 30      | 6726                  | 5784      | 10401                 | 8945      | -                      | -         | -                       | -         |
|  | 35      | 6486                  | 5578      | 9490                  | 8161      | 21320                  | 18335     | 30225                   | 25994     |
|  | 40      | 6250                  | 5375      | 8983                  | 7725      | 20782                  | 17873     | 29722                   | 25561     |
|  | 45      | 6018                  | 5175      | 8880                  | 7637      | 20355                  | 17505     | 29170                   | 25086     |
|  | 50      | 5789                  | 4979      | 9180                  | 7895      | 19922                  | 17133     | 28524                   | 24531     |
|  | 55      | -                     | -         | -                     | -         | 19363                  | 16652     | 27738                   | 23855     |
| -35                                    | 30      | 5397                  | 4641      | 8325                  | 7160      | -                      | -         | -                       | -         |
|  | 35      | 5211                  | 4481      | 8087                  | 6955      | 17795                  | 15304     | 25461                   | 21896     |
|  | 40      | 5030                  | 4326      | 7847                  | 6748      | 17502                  | 15052     | 25065                   | 21556     |
|  | 45      | 4854                  | 4174      | 7605                  | 6540      | 17192                  | 14785     | 24630                   | 21182     |
|  | 50      | 4682                  | 4027      | 7362                  | 6331      | 16822                  | 14467     | 24108                   | 20733     |
|  | 55      | -                     | -         | -                     | -         | 16353                  | 14064     | 23451                   | 20168     |
| -40                                    | 30      | 4294                  | 3693      | 6547                  | 5630      | -                      | -         | -                       | -         |
|  | 35      | 4152                  | 3571      | 6464                  | 5559      | 14843                  | 12765     | 21277                   | 18298     |
|  | 40      | 4015                  | 3453      | 6320                  | 5435      | 14631                  | 12583     | 20970                   | 18034     |
|  | 45      | 3883                  | 3339      | 6114                  | 5258      | 14385                  | 12371     | 20625                   | 17738     |
|  | 50      | 3757                  | 3231      | 5847                  | 5028      | 14080                  | 12109     | 20200                   | 17372     |
|  | 55      | -                     | -         | -                     | -         | 13691                  | 11774     | 19652                   | 16901     |
| -45                                    | 30      | 3382                  | 2909      | 5055                  | 4347      | -                      | -         | -                       | -         |
|  | 35      | 3276                  | 2817      | 4934                  | 4243      | 12315                  | 10591     | 17621                   | 15154     |
|  | 40      | 3175                  | 2730      | 4817                  | 4143      | 12123                  | 10426     | 17384                   | 14950     |
|  | 45      | 3079                  | 2648      | 4703                  | 4045      | 11920                  | 10251     | 17112                   | 14716     |
|  | 50      | 2987                  | 2569      | 4592                  | 3949      | 11674                  | 10040     | 16767                   | 14420     |
|  | 55      | -                     | -         | -                     | -         | 11353                  | 9764      | 16311                   | 14027     |
| -50                                    | 30      | 2631                  | 2263      | 3841                  | 3303      | -                      | -         | -                       | -         |
|  | 35      | 2553                  | 2196      | 3812                  | 3278      | 10064                  | 8655      | 14445                   | 12423     |
|  | 40      | 2480                  | 2133      | 3753                  | 3228      | 9934                   | 8543      | 14254                   | 12258     |
|  | 45      | 2412                  | 2074      | 3666                  | 3153      | 9782                   | 8413      | 14047                   | 12080     |
|  | 50      | 2349                  | 2020      | 3550                  | 3053      | 9584                   | 8242      | 13776                   | 11847     |
|  | 55      | -                     | -         | -                     | -         | 9317                   | 8013      | 13397                   | 11521     |



| Codice Code                            |         | CDB260T301F             |           | CDB260T401F             |           | CDB260T501F             |           | CDB360T001F             |           |
|--|---------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|-------------------------|-----------|
| Potenza nominale Nominal Power         |         | 22 kW DS                |           | 30 kW DS                |           | 37 kW DS                |           | 56 kW DS                |           |
| Refrigerante Refrigerant               |         | R404A                   |           | R404A                   |           | R404A                   |           | R404A                   |           |
| Tensione Voltage                       |         | 400/3N~/50              |           | 400/3N~/50              |           | 400/3N~/50              |           | 400/3N~/50              |           |
| Assorbim. nom. Nominal absorption      |         | 20,1 kW*<br>48,4 A      |           | 25,5 kW*<br>59,3 A      |           | 28,3 kW*<br>65,1 A      |           | 42,5 kW*<br>97,7 A      |           |
| Sbrinamento Defrost                    |         | EL                      |           | EL                      |           | EL                      |           | EL                      |           |
| Portata d'aria cond. Air flow cond.    |         | 22300 m³/h              |           | 22300 m³/h              |           | 22300 m³/h              |           | 33300 m³/h              |           |
| Portata d'aria evap. Air flow evap.    |         | 26900 m³/h              |           | 26900 m³/h              |           | 25900 m³/h              |           | 39000 m³/h              |           |
| Freccia d'aria Air throw               |         | 45 m**                  |           | 45 m**                  |           | 44 m**                  |           | 44 m**                  |           |
| Aspirazione ( mm ) Suction pipe ( mm ) |         | 54 Ø                    |           | 64 Ø                    |           | 64 Ø                    |           | 76 Ø                    |           |
| Mandata ( mm ) Liquid line ( mm )      |         | 22 Ø                    |           | 22 Ø                    |           | 22 Ø                    |           | 28 Ø                    |           |
| Massa Mass                             |         | CU 1110 kg<br>EU 465 kg |           | CU 1132 kg<br>EU 480 kg |           | CU 1140 kg<br>EU 490 kg |           | CU 1810 kg<br>EU 690 kg |           |
| Tev °C                                 | Tcnd °C | Pf Watt                 | Pf Kcal/h | Pf Watt                 | Pf Kcal/h | Pf Watt                 | Pf Kcal/h | Pf Watt                 | Pf Kcal/h |
| -30                                    | 30      | -                       | -         | -                       | -         | -                       | -         | -                       | -         |
|  | 35      | 37114                   | 31918     | 51474                   | 44268     | 60450                   | 51987     | 90675                   | 77980     |
|  | 40      | 36490                   | 31381     | 48500                   | 41710     | 59444                   | 51122     | 89166                   | 76683     |
|  | 45      | 35811                   | 30797     | 51792                   | 44541     | 58340                   | 50172     | 87510                   | 75259     |
|  | 50      | 35022                   | 30119     | 46484                   | 39976     | 57048                   | 49061     | 85571                   | 73591     |
|  | 55      | 34068                   | 29298     | 17707                   | 15228     | 55475                   | 47708     | 83213                   | 71563     |
| -35                                    | 30      | -                       | -         | -                       | -         | -                       | -         | -                       | -         |
|  | 35      | 31259                   | 26883     | 43019                   | 36996     | 50922                   | 43793     | 76383                   | 65689     |
|  | 40      | 30776                   | 26467     | 42236                   | 36323     | 50130                   | 43112     | 75194                   | 64667     |
|  | 45      | 30246                   | 26012     | 41747                   | 35902     | 49260                   | 42364     | 73890                   | 63545     |
|  | 50      | 29609                   | 25464     | 40622                   | 34935     | 48216                   | 41466     | 72324                   | 62199     |
|  | 55      | 28802                   | 24770     | 37929                   | 32619     | 46902                   | 40336     | 70352                   | 60503     |
| -40                                    | 30      | -                       | -         | -                       | -         | -                       | -         | -                       | -         |
|  | 35      | 26125                   | 22468     | 35889                   | 30865     | 42553                   | 36596     | 63830                   | 54894     |
|  | 40      | 25747                   | 22142     | 35563                   | 30584     | 41939                   | 36068     | 62909                   | 54102     |
|  | 45      | 25327                   | 21781     | 34617                   | 29771     | 41250                   | 35475     | 61875                   | 53212     |
|  | 50      | 24807                   | 21334     | 34266                   | 29469     | 40400                   | 34744     | 60600                   | 52116     |
|  | 55      | 24130                   | 20752     | 35724                   | 30723     | 39304                   | 33801     | 58956                   | 50702     |
| -45                                    | 30      | -                       | -         | -                       | -         | -                       | -         | -                       | -         |
|  | 35      | 21640                   | 18610     | 29779                   | 25610     | 35243                   | 30309     | 52864                   | 45463     |
|  | 40      | 21343                   | 18355     | 29256                   | 25160     | 34767                   | 29900     | 52151                   | 44850     |
|  | 45      | 21010                   | 18069     | 29047                   | 24980     | 34223                   | 29432     | 51335                   | 44148     |
|  | 50      | 20587                   | 17705     | 28222                   | 24271     | 33534                   | 28839     | 50300                   | 43258     |
|  | 55      | 20023                   | 17220     | 25849                   | 22230     | 32622                   | 28055     | 48933                   | 42082     |
| -50                                    | 30      | -                       | -         | -                       | -         | -                       | -         | -                       | -         |
|  | 35      | 17734                   | 15251     | 24386                   | 20972     | 28889                   | 24845     | 43334                   | 37267     |
|  | 40      | 17500                   | 15050     | 24092                   | 20719     | 28509                   | 24518     | 42763                   | 36776     |
|  | 45      | 17251                   | 14836     | 23684                   | 20368     | 28093                   | 24160     | 42140                   | 36240     |
|  | 50      | 16922                   | 14553     | 23296                   | 20035     | 27552                   | 23695     | 41328                   | 35542     |
|  | 55      | 16448                   | 14145     | 23059                   | 19831     | 26794                   | 23043     | 40191                   | 34564     |