



Refrigeratori d'acqua e pompe di calore acqua-acqua (compressori a vite)
Water cooled water chillers and heat pumps (screw compressors)
Centrales d'eau glacée et pompes à chaleur eau-eau (compress. a vis)
Wasser-Wasser Kaltwassersätze und Wärmepumpen (Schraubentverdichter)

 COOLING: 185 - 1630 kW

 HEATING: 212 - 1500 kW

R407C



CARATTERISTICHE STANDARD



Tutte le grandezze sono equipaggiate con compressori Vite.
 Struttura in lamiera zincata e verniciatura a polveri poliesteri.
 Sezionatore generale bloccaporta.
 Condensatore tipo a mantello e fascio tubiero, è previsto un condensatore per ogni circuito frigorifero. Collegamenti idraulici per funzionamento con acqua di torre.
 Evaporatore tipo a mantello e fascio tubiero
 Sistema di controllo a microprocessore.
 Versione a pompa di calore (H) con ogni circuito: valvola di inversione a 4 vie, valvole di ritenuto.
 Unità Silenziata SL e Super-silenziata SSL.

VERSION DE BASE



Les versions sont équipées de compresseur a vis.
 Structure en tôle galvanisée et à poudre polyester.
 Sectionner général.
 Condensateur à faisceaux de tuyaux, chaque circuit frigorifique a son échangeur indépendant. Les raccords sont pour eau de tour.
 Échangeur à faisceaux de tuyaux.
 Régulation modulable par microprocesseur.
 Version réversible(H) avec vanne d'inversion a 4 voies, vanne de retenue.
 Version silencieuse SL et super silencieuse SSL.

STANDARD CHARACTERISTICS



The units are equipped with Screw compressors.
 Frame in galvanized steel and polyester powder painting.
 Main switch.
 Shell and tube condenser, each refrigerant circuit is supplied with an independent condenser. Water connections for cooling tower operation.
 Shell and tube evaporator.
 Microprocessor control.
 Heat pump version (H) supplied with include for each circuit: 4-way inversion valve, retention valves.
 Silenced SL and Super-silenced Unit SSL.

STANDARD AUSFÜHRUNG



Die Modelle haben Schraubentverdichter.
 Struktur bestehend aus verzinktem Stahlblech mit Polyesterlacken.
 Hauptschalter mit Türsicherungsgriff serienmäßig.
 Rohrbündelverflüssiger. Es ist je Kältekreislauf ein Verflüssiger vorgesehen. Die Wasseranschlüsse sind Turmwasser geeignet.
 Rohrbündelverdampfer.
 Mikroprozessor für die Steuerung.
 Wärmepumpe Versionen (H) mit 4-Wege-Umkehrventil, Rückhalteventile.
 Schalldämmung Einheit SL und SSL.

SPECIFICATIONS

| Model/Modelli | | 702-V | 802-V | 902-V | 1102-V | 1202-V | 1502-V | 1602-V | 1802-V | 2002-V | 2202-V |
|---|---------|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity ⁽¹⁾ Potenza Frigorifera ⁽¹⁾ | kW | 185 | 226 | 246 | 291 | 319 | 370 | 427 | 470 | 526 | 605 |
| Input power ⁽¹⁾ Potenza Assorbita ⁽¹⁾ | kW | 47 | 58 | 62 | 72 | 78 | 90 | 103 | 116 | 125 | 140 |
| Heating capacity ⁽²⁾ Potenza Termica ⁽²⁾ | kW | 212 | 255 | 282 | 323 | 355 | 412 | 475 | 534 | 581 | 671 |
| Input power ⁽²⁾ Potenza Assorbita ⁽²⁾ | kW | 54 | 65 | 71 | 80 | 86 | 99 | 114 | 132 | 137 | 153 |
| Coefficient E.S.E.E.R. / Coefficiente E.S.E.E.R. | - | 4,60 | 5,01 | 3,27 | 3,89 | 3,40 | 3,27 | 3,39 | 3,32 | 3,75 | 3,68 |
| Coefficient IPLV / Coefficiente IPLV | - | 4,89 | 5,36 | 3,67 | 4,48 | 3,90 | 3,64 | 3,84 | 3,71 | 4,26 | 4,10 |
| Compressors / Compressori | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor Type / Tipo Compressori | - | Screw (capacity steps 6) / A Vite (6 fasi) | | | | | | | | | |
| Inrush current / Corrente Di Spunto | A | 308 | 357 | 366 | 393 | 469 | 475 | 491 | 662 | 663 | 753 |
| Max. running current / Corrente Massima | A | 136 | 160 | 174 | 180 | 192 | 248 | 280 | 314 | 336 | 410 |
| Sound pressure ⁽³⁾ / Pressione Sonora ⁽³⁾ | dB(A) | 63 | | | | | 64 | | | 66 | |
| Power supply / Alimentazione Elettrica | V/Ph/Hz | 400 / 3 / 50 | | | | | | | | | |
| Evaporator water flow Portata Acqua Evaporatore | L/s | 8,84 | 10,80 | 11,75 | 13,90 | 15,24 | 17,68 | 20,40 | 22,46 | 25,13 | 28,91 |
| Pressure drops Perdite D.C. | kPa | 52 | 62 | 43 | 53 | 30 | 39 | 44 | 53 | 53 | 57 |
| Water connections Attacchi Idraulici | DN | 100 | 100 | 125 | 125 | 125 | 125 | 150 | 150 | 150 | 200 |
| Condenser water flow Portata Acqua Condensatore | L/s | 11,08 | 13,57 | 14,72 | 17,34 | 18,97 | 21,98 | 25,32 | 28,00 | 31,10 | 35,59 |
| Pressure drops Perdite D.C. | kPa | 46 | 48 | 43 | 43 | 55 | 58 | 55 | 39 | 50 | 44 |
| Water connections Attacchi Idraulici | "G | 2" | 2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | 2-1/2" | DN80 | DN80 | DN80 |
| Transport weight / Peso Di Trasporto | kg | 1150 | 1310 | 1285 | 1410 | 1575 | 1846 | 2010 | 2060 | 2295 | 2460 |
| Operating weight / Peso In Esercizio | kg | 1230 | 1390 | 1420 | 1550 | 1720 | 1980 | 2200 | 2250 | 2480 | 2760 |

| Model/Modelli | | 2402-V | 3202-V | 3302-V | 3402-V | 3602-V | 4002-V | 4202-V | 4602-V | 5002-V | 5602-V |
|---|---------|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Cooling capacity ⁽¹⁾ Potenza Frigorifera ⁽¹⁾ | kW | 633 | 754 | 843 | 897 | 931 | 1026 | 1096 | 1332 | 1508 | 1630 |
| Input power ⁽¹⁾ Potenza Assorbita ⁽¹⁾ | kW | 150 | 176 | 195 | 207 | 215 | 236 | 252 | 316 | 347 | 373 |
| Heating capacity ⁽²⁾ Potenza Termica ⁽²⁾ | kW | 700 | 832 | 928 | 994 | 1030 | 1135 | 1212 | 1500 | - | - |
| Input power ⁽²⁾ Potenza Assorbita ⁽²⁾ | kW | 165 | 194 | 215 | 225 | 237 | 261 | 278 | 342 | - | - |
| Coefficient E.S.E.E.R. / Coefficiente E.S.E.E.R. | - | 3,98 | 3,91 | 3,97 | 3,90 | 3,97 | 3,91 | 3,93 | 3,77 | 3,77 | 4,01 |
| Coefficient IPLV / Coefficiente IPLV | - | 4,58 | 4,43 | 4,52 | 4,37 | 4,46 | 4,39 | 4,41 | 4,20 | 4,23 | 4,47 |
| Compressors / Compressori | - | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Compressor Type / Tipo Compressori | - | Screw (capacity steps 6) / A Vite (6 fasi) | | | | | | | | | |
| Inrush current / Corrente Di Spunto | A | 514 | 579 | 619 | 693 | 723 | 843 | 929 | 995 | 1524 | 1560 |
| Max. running current / Corrente Massima | A | 392 | 450 | 490 | 552 | 540 | 600 | 668 | 800 | 936 | 1002 |
| Sound pressure ⁽³⁾ / Pressione Sonora ⁽³⁾ | dB(A) | 66 | 67 | 68 | | 69 | | 68 | 69 | 70 | |
| Power supply / Alimentazione Elettrica | V/Ph/Hz | 400 / 3 / 50 | | | | | | | | | |
| Evaporator water flow Portata Acqua Evaporatore | L/s | 30,24 | 36,02 | 40,28 | 42,86 | 44,48 | 49,02 | 52,36 | 63,64 | 72,05 | 77,88 |
| Pressure drops Perdite D.C. | kPa | 60 | 49 | 43 | 45 | 46 | 60 | 51 | 53 | 59 | 56 |
| Water connections Attacchi Idraulici | DN | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 |
| Condenser water flow Portata Acqua Condensatore | L/s | 37,41 | 44,43 | 49,59 | 52,75 | 54,75 | 60,30 | 64,40 | 78,74 | 88,63 | 95,70 |
| Pressure drops Perdite D.C. | kPa | 51 | 54 | 58 | 40 | 41 | 41 | 42 | 54 | 30 | 35 |
| Water connections Attacchi Idraulici | "G | DN80 | DN80 | DN80 | DN100 | DN100 | DN100 | DN100 | DN100 | DN125 | DN125 |
| Transport weight / Peso Di Trasporto | kg | 2515 | 2845 | 2855 | 3220 | 3240 | 3820 | 4050 | 4210 | 4810 | 4980 |
| Operating weight / Peso In Esercizio | kg | 2820 | 3150 | 3200 | 3560 | 3580 | 4150 | 4480 | 4790 | 5430 | 5660 |

⁽¹⁾ - Chilled water from 12 to 7 °C, condens. water temperature 30/35 °C.

⁽²⁾ - Condens. water from 40 to 45 °C, evaporator water temperature 15 / 10 °C.

⁽³⁾ - Sound pressure level measured in free field conditions at 1 m from the unit. According to ISO 3744.

⁽¹⁾ - Acqua evaporatore da 12 a 7 °C, temp. acqua condens. 30/35 °C.

⁽²⁾ - Temperatura acqua condensatore da 40 a 45 °C, temperatura acqua 15 °C / 10 °C.

⁽³⁾ - Livello medio di pressione sonora in campo libero a 1 m dall'unità come definito dalla ISO 3744.

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|------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| L, mm | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3300 | 3100 | 3100 |
| H, mm | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2150 | 2150 |
| S, mm | 780 | 780 | 780 | 780 | 780 | 780 | 780 | 780 | 1420 | 1420 |

| Model Modelli | 2402-V | 3202-V | 3302-V | 3402-V | 3602-V | 4002-V | 4202-V | 4602-V | 5002-V | 5602-V |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| L, mm | 3100 | 3100 | 3100 | 3300 | 3300 | 3300 | 3800 | 3800 | 3800 | 4600 |
| H, mm | 2150 | 2150 | 2150 | 2150 | 2150 | 2150 | 2200 | 2200 | 2200 | 2200 |
| S, mm | 1420 | 1420 | 1420 | 1450 | 1450 | 1450 | 1550 | 1550 | 1650 | 1650 |

