



Catalogue

Optyma™ condensing unit Scroll and reciprocating compressors

for R404A / R507, R134a, R407C and R22 - 60 Hz





Reduce your customers' running costs

Optyma™ condensing unit is a very energy-efficient solution for your application. Due to the large heat transfer area and high COP of our compressors you are going to reduce the energy consumption significantly and therefore, cut the energy bill.



Optimise your stock and logistics

Most Optyma™ condensing units can be used with R404A/R507 as well as R134a. This multifunctional condensing unit for a wide variety of applications will reduce your stock and improve your logistics.



Installation just got easier

Optyma™ condensing unit saves costs for service and maintenance. The high robustness and easy access to all components, reduce costs for installation even in very harsh environments.



No compromise on quality

We at Danfoss do not accept any concessions regarding quality & reliability for our products. With Optyma™ we provide to our customers 100 % factory tested units with a premium quality.



Optyma™ the most reliable and efficient condensing units for the widest application range

Optyma™ is the widest range of hermetic condensing units on the market.

Optyma™ condensing unit is available with high capacity models of reciprocating and scroll compressors cover a large range of commercial refrigeration applications, reduce costs and complexity of the systems.

All Optyma™ condensing units are extremely efficient and reliable. This means less energy consumption, reduction of running costs, less service and maintenance costs. Thanks to scroll compressors, Optyma™ offers also the best solution for applications

where noise and vibration are matter in the system and the environment where it is installed.

Optyma™ with scroll is a real multi refrigerant condensing unit. It can be used with R404A/R507/R134a and R22 refrigerants, so that you can really optimize your stock.

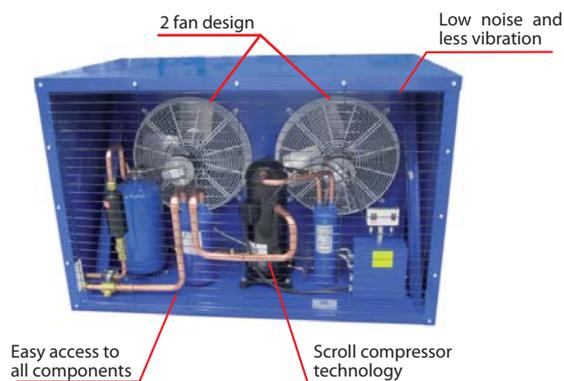
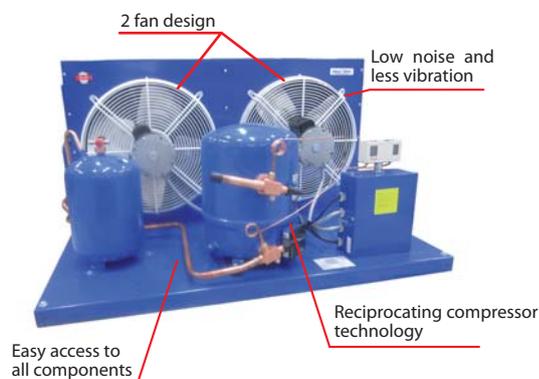
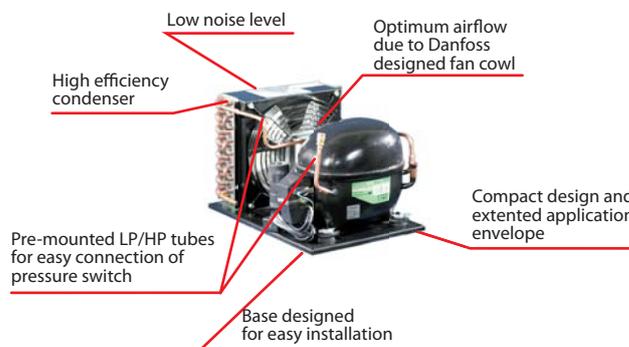
In addition to the wide Optyma™ range we also include local support and guidance if needed. A network of partner wholesalers and local Danfoss teams can offer you help and will do their utmost to fulfil your needs. At Danfoss we simply believe it is important to offer an "Optimum service".

Benefits

- High-efficiency condensers allowing an extended application envelope in higher ambient conditions than standard
- Low electrical consumption and low running costs
- Reliable components for longer life and less warranty call out costs
- Fully pre-wired and factory tested, reducing commissioning time on site
- Base plate designed to allow easy mounting on wall brackets
- Flexible add-on design options including: oil separator (optional for integral units), pressure switches or weather proof housing
- Easy access to all components for higher serviceability and simplified maintenance
- Compact dimensions and minimum foot print for easy handling, shipping and installation
- More reliable and silent system due to less vibration and less noise of scroll compressor
- Local technical support included
- Perfect for retrofit with systems using old refrigerants

Features

- HFC refrigerants R134a, R404A and R507
- Capacity: from 0 to 20000 Watt (R404A)
- High COP
- Low noise and low vibration (Scroll compressors)
- 100% factory tested for leakage
- High efficient compressors (MBP + LBP)
- Low energy consumption
- Wide application range
- Powder coated steel parts
- Crankcase heater standard (optional for fractional units)
- Service valves standard with access ports
- Access valves/stubs for easy connection



| Unit | | Version | | | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] | | |
|--------------|--------------|----------|----------|----------|-----------------|------------|---------------|---|-------|-------|------|------|--|--|------|-----|
| | | WA | WB | WC | | | | -30°C | -20°C | -10°C | 0°C | +5°C | | | | |
| | OP-UCHC0020R | 114N2316 | | | B | TF4CLX | 32°C | 165 | 253 | 380 | 438 | 584 | 195 | 32°C: -40°C till +7.2°C 43°C: -40°C till +1.7°C | | |
| | | | | | | | 38°C | 145 | 225 | 340 | 395 | 525 | 196 | | | |
| | | | | | | | 43°C | 127 | 201 | 307 | 352 | | 198 | | | |
| | OP-UCHC0025R | | 114N2318 | | | B | NF5.5CLX | 32°C | 285 | 429 | 640 | 750 | 1010 | | 270 | |
| | | | | | | | | 38°C | 255 | 390 | 590 | 690 | 920 | | 275 | |
| | | | | | | | | 43°C | 225 | 350 | 530 | 610 | | | 280 | |
| | OP-UCHC0033R | | 114N2320 | 114N2321 | B | NF7CLX | 32°C | 340 | 520 | 780 | 900 | 1190 | 335 | | | |
| | | | | | | | | | 38°C | 310 | 470 | 710 | 815 | | 1100 | 340 |
| | | | | | | | | | 43°C | 280 | 430 | 660 | 765 | | | 345 |
| | OP-UCHC0050R | | 114N2322 | 114N2324 | B | SC10CL | 32°C | 385 | 632 | 942 | 1313 | 1516 | 373 | | | |
| | | | | | | | | | 38°C | 332 | 565 | 855 | 1202 | | | 371 |
| | | | | | | | | | 43°C | 278 | 498 | 769 | | | | 368 |
| OP-LCHC0060R | | 114N2333 | 114N2335 | B | SC15CLX.2 | 32°C | 630 | 960 | 1430 | | | 650 | | | | |
| | | | | | | | | 38°C | 550 | 850 | 1260 | | | 662 | | |
| | | | | | | | | 43°C | 470 | 745 | | | | 675 | | |

Test condition: RGT @ 18°C

Electrical code

- B** Compressor 115 V/1 phase/60 Hz, fan 115 V/1 phase/60 Hz
- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz

Version

- WA:** wholesale model power cord
- WB:** wholesale model power cord, receiver
- WC:** wholesale model BX, receiver

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|-------------|---------------------|------|-----------------|--------------|---------------|--------------|-------------|-------------|
| | | | Height H [mm] | Width W [mm] | Length D [mm] | Suction line | Liquid line | |
| OP-UHC0020R | - | 1 | 259 | 312 | 356 | 3/8" F | 1/4" F | 15 |
| OP-UHC0025R | 0.88 | 2 | 262 | 343 | 432 | 3/8" F | 1/4" F | 19 |
| OP-UHC0033R | 0.88 | 2 | 262 | 343 | 432 | 1/2" F | 1/4" F | 17 |
| OP-UHC0050R | 0.88 | 2 | 300 | 343 | 432 | 1/2" F | 1/4" F | 22 |
| OP-LHC0060R | 0.88 | 2 | 300 | 343 | 432 | 1/2" F | 1/4" F | 22 |

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] | |
|------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|-------|--|------------------------|--|
| | | | | | -35°C | -30°C | -25°C | -20°C | -15°C | -10°C | | | |
| | OP-LCZ022E | 114N8001 | N | NTZ048 | 35°C | 1111 | 1506 | 1935 | 2389 | 2865 | 3357 | 1329 | 43°C: -35°C to -15°C 48°C: -35°C to -25°C |
| | | 114N8002 | Q | | 43°C | 861 | 1200 | 1562 | 1942 | 2335 | 2739 | 1283 | |
| | | 114N8003 | R | | 48°C | 711 | 1014 | 1334 | 1668 | | | 1230 | |
| | OP-LCZ028E | 114N8006 | N | NTZ068 | 35°C | 1875 | 2437 | 3043 | 3683 | 4345 | 5013 | 2149 | |
| | | 114N8007 | Q | | 43°C | 1537 | 2021 | 2538 | 3076 | 3628 | 4178 | 2224 | |
| | | 114N8008 | R | | 48°C | 1340 | 1777 | 2237 | | | | 2267 | |
| | OP-LCZ044E | 114N8011 | N | NTZ108 | 35°C | 2704 | 3721 | 4856 | 6089 | 7394 | 8747 | 3038 | |
| | | 114N8012 | Q | | 43°C | 2160 | 3028 | 3981 | 5006 | 6083 | 7187 | 3011 | |
| | | 114N8013 | R | | 48°C | 1803 | 2578 | 3421 | 4317 | 5252 | | 2970 | |
| | OP-LCZ050E | 114N8016 | N | NTZ136 | 35°C | 3435 | 4597 | 5865 | 7212 | 8618 | 10049 | 4032 | |
| | | 114N8017 | Q | | 43°C | 2719 | 3738 | 4835 | 5993 | 7185 | | 3987 | |
| | | 114N8018 | R | | 48°C | 2280 | 3207 | 4197 | 5233 | | | 3924 | |
| | OP-LGZ088E | 114N8021 | Q | NTZ215 | 35°C | 5489 | 7257 | 9216 | 11342 | 13608 | 15982 | 5914 | |
| | | 114N8022 | R | | 43°C | 4226 | 5770 | 7458 | 9274 | 11192 | 13188 | 5818 | |
| | | | | | 48°C | 3421 | 4818 | 6338 | 7957 | 9663 | | 5665 | |
| | OP-LGZ100E | 114N8025 | Q | NTZ271 | 35°C | 7316 | 9430 | 11703 | 14091 | 16540 | 18984 | 7978 | |
| | | | | | 43°C | 5882 | 7672 | 9574 | 11541 | | | 8051 | |
| | | | | | 48°C | 4974 | 6561 | 8225 | | | | 8032 | |

Test condition: SH 10 K

Electrical code

- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q** Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz
- R** Compressor 460 V/3 phase/60 Hz, fan 460 V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|--------------|---------------|--------------|-------------|-------------|
| | | | Height H [mm] | Width W [mm] | Length D [mm] | Suction line | Liquid line | |
| OP-LCZ022E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 51 |
| OP-LCZ028E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 62 |
| OP-LCZ044E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 85 |
| OP-LCZ050E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 98 |
| OP-LGZ088E | 10 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 144 |
| OP-LGZ100E | 10 | 4 | 671 | 1200 | 800 | 1 1/8 " | 1/2 " | 150 |

| Unit | | Version | | | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] |
|------|--------------|----------|----------|-------|-----------------|------------|---------------|---|--------|--------|--------|-------|--|------------------------|
| | | WA | WB | WC | | | | -15°C | -10°C | -5°C | -0°C | +5°C | | |
| | OP-UCGC0017R | 114N2016 | | | B | TL4G | 32°C | 143.1 | 183.4 | 229.3 | 281.2 | 339.2 | 134 | 43°C: -15°C to +5°C |
| | | | 38°C | 161.1 | | | 204.9 | 254.2 | 309.2 | 370.1 | 131 | | | |
| | | | 43°C | 180.1 | | | 228.6 | 282.4 | 341.7 | 406.7 | 126 | | | |
| | OP-UCGC0020R | 114N2017 | | | B | NF6.1FX2 | 32°C | 294 | 364 | 443 | 532 | 629 | 236 | |
| | | | 38°C | 323 | | | 398 | 483 | 579 | 684 | 228 | | | |
| | | | 43°C | 350.6 | | | 431.7 | 523.4 | 625.6 | 738.2 | 220 | | | |
| | OP-UCGC0025R | 114N2019 | | | B | NF7.3FX2 | 32°C | 341 | 419 | 507.1 | 605.4 | 713.6 | 290 | |
| | | | 38°C | 368.9 | | | 453.2 | 548.4 | 654.6 | 771.3 | 281 | | | |
| | | | 43°C | 396.9 | | | 487.4 | 589.7 | 703.8 | 829 | 273 | | | |
| | OP-HCGC0033R | 114N2021 | 114N2022 | | B | NF11FX | 32°C | 429 | 535 | 656 | 790 | 937 | 403 | |
| | | | | 38°C | | | 465 | 580 | 709 | 854 | 1013 | 392 | | |
| | | | | 43°C | | | 501.3 | 624.13 | 763.27 | 918.43 | 1088.6 | 382 | | |
| | OP-UCGC0050R | 114N2023 | 114N2024 | | B | SC18G | 32°C | 665.6 | 836.7 | 1024 | 1229 | 1450 | 632 | |
| | | | | 38°C | | | 726 | 908.2 | 1111 | 1335 | 1578 | 620 | | |
| | | | | 43°C | | | 786.4 | 979.7 | 1198 | 1441 | 1707 | 608 | | |

Test condition: RGT @ 18°C

Electrical code
B Compressor 115 V/1 phase/60 Hz, fan 115 V/1 phase/60 Hz

Version
WA: wholesale model power cord

WB: wholesale model power cord, receiver

WC: wholesale model BX, receiver

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|--------------|---------------------|------|-----------------|--------------|---------------|--------------|-------------|-------------|
| | | | Height H [mm] | Width W [mm] | Length D [mm] | Suction line | Liquid line | |
| OP-UCGC0017R | - | 1 | 229 | 279 | 356 | 3/8" F | 1/4" F | 12 |
| OP-UCGC0020R | - | 1 | 229 | 279 | 356 | 3/8" F | 1/4" F | 12 |
| OP-UCGC0025R | 0.8 | 2 | 231 | 343 | 432 | 3/8" F | 1/4" F | 17 |
| OP-HCGC0033R | 0.8 | 2 | 259 | 343 | 432 | 3/8" F | 1/4" F | 18 |
| OP-UCGC0050R | 0.8 | 2 | 300 | 343 | 432 | 3/8" F | 1/4" F | 24 |

Electrical characteristics - single phase

| Model | Wiring diagram | MCA [A] 115 V/ 1 phase | MCA [A] 230 V/ 1 phase |
|--------------|------------------------------------|------------------------------|------------------------------|
| OP-UCHC0020R | 119-3987 | 5.1 | |
| OP-UCHC0025R | 119-3987 | 6.2 | |
| OP-UCHC0033R | 119-3987 | 7.6 | |
| OP-UCHC0050R | 119-3993 (115V) 119-3995 (230V) | 11.6 | 4.2 |
| OP-LCHC0060R | 119-3983 (115V) 119-3990 (230V) | 13.9 | 6.3 |
| OP-UCGC0017R | 119-3987 | 4.1 | |
| OP-UCGC0020R | 119-3987 | 6.1 | |
| OP-UCGC0025R | 119-3987 | 6.4 | |
| OP-HCGC0033R | 119-3995 | 11.7 | |
| OP-UCGC0050R | 119-3992 | 13.4 | |
| OP-LCZ022E | 191U601500 | | 12.2 |
| OP-LCZ028E | 191U601500 | | 19.9 |
| OP-LCZ044E | 191U601500 | | 33 |
| OP-LCZ050E | 191U601500 | | 40.2 |

Electrical characteristics - 3phases

| Model | Wiring diagram | MCA [A] 230V/3P | MCA [A] 460V/3P |
|------------|--|-----------------------|-----------------------|
| OP-LCZ022E | 191U601600 (230V) 191U601700 (460V) | 9.5 | 6 |
| OP-LCZ028E | 191U601600 (230V) 191U601700 (460V) | 14.4 | 7.5 |
| OP-LCZ044E | 191U601600 (230V) 191U601700 (460V) | 27.7 | 9.5 |
| OP-LCZ050E | 191U601600 (230V) 191U601700 (460V) | 29.4 | 12 |
| OP-LGZ088E | 191U601610 (230V) 191U601710 (460V) | 41.3 | 22 |
| OP-LGZ100E | 191U601610 (230V) 191U601710 (460V) | 54 | 27 |

Spare parts

| Model | Condenser | Receiver | Service valve | | | Fan motor | | | Filter drier | Sight glass | Pressure control |
|--------------|------------|----------|---------------|--------------|------------|-----------|------------|------------|--------------|-------------|------------------|
| | | | Suction | | Discharge | 115V | 230V | 460V | | | |
| | | | Elect Code B | Elect Code N | | | | | | | |
| OP-UCHC0020R | | | 119-3610 | | 119-3609 | 119-5662 | | | | | |
| OP-UCHC0025R | | | 119-3610 | | 119-3611 | 119-5662 | | | | | |
| OP-UCHC0033R | | | 119-3978 | | 119-3611 | 119-5662 | | | | | |
| OP-UCHC0050R | | | 119-3610 | 119-3978 | 119-3611 | 119-5663 | 119-5665 | | | | |
| OP-LCHC0060R | | | 119-3978 | 119-3978 | 119-3611 | 119-5663 | 119-5665 | | | | |
| OP-UCGC0017R | | | 119-3610 | | 119-3609 | 119-5661 | | | | | |
| OP-UCGC0020R | | | 119-3610 | | 119-3609 | 119-5662 | | | | | |
| OP-UCGC0025R | | | 119-3610 | | 119-3611 | 119-5662 | | | | | |
| OP-HCGC0033R | | | 119-3610 | | 119-3611 | 119-5662 | | | | | |
| OP-UCGC0050R | | | 119-3978 | | 119-3611 | 119-5663 | | | | | |
| OP-LCZ022E | 191U131500 | 118U6009 | | 6804531V15 * | 6804501V06 | | 191U137020 | 191U137520 | | 060-518466 | |
| OP-LCZ028E | 191U131600 | 118U6009 | | 6804531V15 * | 6804501V06 | | 191U137120 | 191U137620 | | 060-518466 | |
| OP-LCZ044E | 191U131900 | 118U6011 | | 6804505V07 * | 6804502V09 | | 191U137320 | 191U137820 | 023Z5044 | 014-0173 | |
| OP-LCZ050E | 191U131900 | 118U6011 | | 6804505V07 * | 6804502V09 | | 191U137320 | 191U137820 | | 060-518466 | |
| OP-LGZ088E | 191U131000 | 118U6012 | | 6804502V02 * | 6804503V04 | | 191U137320 | 191U137820 | | 060-512566 | |
| OP-LGZ100E | 191U131000 | 118U6012 | | 6804506V02 * | 6804503V04 | | 191U137320 | 191U137820 | | 060-512566 | |

* for electrical codes N, Q and R

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] | |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|--|------------------------|---|
| | | | | | -15°C | -10°C | -5°C | 0°C | +5°C | | | |
| | OP-HCZ018E | 114N3001 | N | MTZ018 | 35°C | 1717 | 2223 | 2772 | 3362 | 3986 | 1656 | 43°C: -15°C to +5°C 48°C: -15°C to 0°C |
| | | 114N3002 | Q | | 43°C | 1344 | 1772 | 2238 | 2737 | 3268 | 1685 | |
| | | 114N3003 | R | | 48°C | 1113 | 1492 | 1904 | 2347 | | 1686 | |
| | OP-HCZ022E | 114N3006 | N | MTZ022 | 35°C | 2523 | 3174 | 3888 | 4660 | 5480 | 1901 | |
| | | 114N3007 | Q | | 43°C | 2038 | 2582 | 3180 | 3824 | 4510 | 1984 | |
| | | 114N3008 | R | | 48°C | 1722 | 2197 | 2720 | 3286 | | 2018 | |
| | OP-HCZ028E | 114N3011 | N | MTZ028 | 35°C | 3508 | 4356 | 5295 | 6316 | 7417 | 2457 | |
| | | 114N3012 | Q | | 43°C | 2907 | 3635 | 4437 | 5310 | 6251 | 2586 | |
| | | 114N3013 | R | | 48°C | 2516 | 3165 | 3879 | 4658 | 5499 | 2649 | |
| | OP-HCZ032E | 114N3016 | N | MTZ032 | 35°C | 3836 | 4796 | 5866 | 7036 | 8301 | 2713 | |
| | | 114N3017 | Q | | 43°C | 3193 | 4005 | 4906 | 5894 | 6962 | 2856 | |
| | | 114N3018 | R | | 48°C | 2783 | 3504 | 4301 | 5175 | 6124 | 2921 | |
| | OP-HCZ036E | 114N3021 | N | MTZ036 | 35°C | 4292 | 5377 | 6570 | 7864 | 9247 | 3045 | |
| | | 114N3022 | Q | | 43°C | 3508 | 4434 | 5454 | 6561 | 7742 | 3164 | |
| | | 114N3023 | R | | 48°C | 3018 | 3845 | 4755 | 5742 | | 3230 | |
| | OP-HCZ040E | 114N3026 | N | MTZ040 | 35°C | 4886 | 6095 | 7417 | 8844 | 10359 | 3447 | |
| | | 114N3027 | Q | | 43°C | 4011 | 5039 | 6164 | 7377 | 8668 | 3606 | |
| | | 114N3028 | R | | 48°C | 3469 | 4381 | 5380 | 6460 | | 3684 | |
| OP-HCZ044E | 114N3031 | N | MTZ044 | 35°C | 5608 | 7014 | 8557 | 10214 | 11959 | 3893 | | |
| | 114N3032 | Q | | 43°C | 4501 | 5711 | 7026 | 8422 | 9885 | 3919 | | |
| | 114N3033 | R | | 48°C | 3833 | 4904 | 6062 | 7290 | 8572 | 3903 | | |
| OP-HCZ050E | 114N3036 | N | MTZ050 | 35°C | 6557 | 8116 | 9809 | 11609 | 13481 | 4499 | | |
| | 114N3037 | Q | | 43°C | 5310 | 6653 | 8092 | 9608 | 11177 | 4547 | | |
| | 114N3038 | R | | 48°C | 4554 | 5746 | 7016 | 8344 | | 4548 | | |
| | OP-HGZ064E | 114N3046 | N | MTZ064 | 35°C | 8940 | 11030 | 13306 | 15748 | 18328 | 5651 | 43°C: -15°C to +5°C 48°C: -15°C to 0°C |
| | | 114N3047 | Q | | 43°C | 7345 | 9173 | 11147 | 13243 | 15445 | 5724 | |
| | | 114N3048 | R | | 48°C | 6352 | 8002 | 9770 | 11642 | | 5731 | |
| | OP-HGZ072E | 114N3051 | Q | MTZ072 | 35°C | 10172 | 12489 | 15033 | 17774 | 20692 | 6380 | |
| | | 114N3052 | R | | 43°C | 8392 | 10427 | 12642 | 15017 | 17523 | 6522 | |
| | | | 48°C | | 7286 | 9128 | 11121 | 13250 | | 6567 | | |
| | OP-HGZ080E | 114N3055 | Q | MTZ080 | 35°C | 11255 | 13716 | 16371 | 19194 | 22148 | 7439 | |
| | | 114N3056 | R | | 43°C | 9318 | 11457 | 13744 | 16147 | 18644 | 7579 | |
| | | | 48°C | | 8105 | 10024 | 12061 | | | 7634 | | |
| | OP-HGZ100E | 114N3059 | Q | MTZ100 | 35°C | 11183 | 13898 | 16871 | 20086 | 23516 | 8148 | |
| | | 114N3060 | R | | 43°C | 8979 | 11288 | 13821 | 16561 | 19495 | 8406 | |
| | | | 48°C | | 7625 | 9674 | 11924 | | | 8516 | | |
| | OP-HGZ125E | 114N3063 | Q | MTZ125 | 35°C | 15047 | 18443 | 22197 | 26280 | 30688 | 10521 | |
| | | 114N3064 | R | | 43°C | 12265 | 15173 | 18387 | 21899 | 25684 | 10947 | |
| | | | 48°C | | 10519 | 13116 | 15987 | 19129 | | 11112 | | |
| | OP-HGZ144E | 114N3067 | Q | MTZ144 | 35°C | 17195 | 20913 | 24979 | 29377 | 34067 | 12158 | |
| | | 114N3068 | R | | 43°C | 14012 | 17170 | 20635 | 24377 | 28381 | 12636 | |
| | | | 48°C | | 12015 | 14809 | 17882 | | | 12848 | | |
| OP-HGZ160E | 114N3071 | Q | MTZ160 | 35°C | 18742 | 22735 | 27103 | 31832 | 36883 | 13714 | | |
| | 114N3072 | R | | 43°C | 15341 | 18750 | 22490 | 26529 | 30852 | 14150 | | |
| | | 48°C | | 13220 | 16253 | 19584 | 23201 | | 14381 | | | |

Test condition: SH 10 K

Electrical code

- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q** Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz
- R** Compressor 460 V/3 phase/60 Hz, fan 460 V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|--------------|---------------|--------------|-------------|-------------|
| | | | Height H [mm] | Width W [mm] | Length D [mm] | Suction line | Liquid line | |
| OP-HCZ018E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 45 |
| OP-HCZ022E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 54 |
| OP-HCZ028E | 6 | 3 | 548 | 800 | 600 | 1/2 " | 1/2 " | 61 |
| OP-HCZ032E | 8 | 3 | 548 | 800 | 600 | 5/8 " | 1/2 " | 69 |
| OP-HCZ036E | 8 | 3 | 548 | 800 | 600 | 5/8 " | 1/2 " | 70 |
| OP-HCZ040E | 8 | 3 | 696 | 800 | 700 | 5/8 " | 1/2 " | 81 |
| OP-HCZ044E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 85 |
| OP-HCZ050E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 91 |
| OP-HGZ064E | 8 | 4 | 671 | 1200 | 800 | 7/8 " | 1/2 " | 119 |
| OP-HGZ072E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 122 |
| OP-HGZ080E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 128 |
| OP-HGZ100E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 154 |
| OP-HGZ125E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 225 |
| OP-HGZ144E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 230 |
| OP-HGZ160E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 245 |

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] | |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|--|------------------------|---------------------|
| | | | | | -15°C | -10°C | -5°C | 0°C | +5°C | | | |
| | OP-HCZ018E | 114N3001 | N | MTZ018 | 35°C | 1186 | 1560 | 2019 | 2569 | 3211 | 814 | 48°C: -15°C to +5°C |
| | | 114N3002 | Q | | 43°C | 952 | 1294 | 1712 | 2212 | 2796 | 820 | |
| | | 114N3003 | R | | 48°C | 810 | 1129 | 1519 | 1986 | 2532 | 803 | |
| | OP-HCZ022E | 114N3006 | N | MTZ022 | 35°C | 1564 | 2100 | 2736 | 3478 | 4323 | 1015 | |
| | | 114N3007 | Q | | 43°C | 1326 | 1809 | 2380 | 3043 | 3799 | 1040 | |
| | | 114N3008 | R | | 48°C | 1172 | 1617 | 2144 | 2754 | 3450 | 1038 | |
| | OP-HCZ028E | 114N3011 | N | MTZ028 | 35°C | 2127 | 2874 | 3732 | 4704 | 5792 | 1301 | |
| | | 114N3012 | Q | | 43°C | 1781 | 2477 | 3271 | 4167 | 5166 | 1335 | |
| | | 114N3013 | R | | 48°C | 1562 | 2222 | 2972 | 3816 | 4756 | 1342 | |
| | OP-HCZ032E | 114N3016 | N | MTZ032 | 35°C | 2192 | 3029 | 3998 | 5100 | 6338 | 1540 | |
| | | 114N3017 | Q | | 43°C | 1980 | 2728 | 3587 | 4562 | 5651 | 1606 | |
| | | 114N3018 | R | | 48°C | 1823 | 2508 | 3292 | 4180 | 5172 | 1633 | |
| OP-HCZ036E | 114N3021 | N | MTZ036 | 35°C | 2851 | 3734 | 4756 | 5921 | 7234 | 1774 | | |
| | 114N3022 | Q | | 43°C | 2392 | 3215 | 4161 | 5234 | 6438 | 1805 | | |
| | 114N3023 | R | | 48°C | 2115 | 2894 | 3786 | 4796 | 5927 | 1804 | | |
| OP-HCZ040E | 114N3026 | N | MTZ040 | 35°C | 3508 | 4443 | 5529 | 6775 | 8188 | 1984 | | |
| | 114N3027 | Q | | 43°C | 2805 | 3708 | 4753 | 5947 | 7301 | 1980 | | |
| | 114N3028 | R | | 48°C | 2407 | 3289 | 4306 | 5468 | 6784 | 1953 | | |
| OP-HCZ044E | 114N3031 | N | MTZ044 | 35°C | 3150 | 4216 | 5511 | 7046 | 8830 | 2110 | | |
| | 114N3032 | Q | | 43°C | 2650 | 3615 | 4784 | 6169 | 7778 | 2153 | | |
| | 114N3033 | R | | 48°C | 2361 | 3254 | 4335 | 5619 | 7112 | 2149 | | |
| OP-HCZ050E | 114N3036 | N | MTZ050 | 35°C | 3696 | 4922 | 6365 | 8035 | 9929 | 2406 | | |
| | 114N3037 | Q | | 43°C | 3128 | 4244 | 5553 | 7062 | 8771 | 2451 | | |
| | 114N3038 | R | | 48°C | 2789 | 3828 | 5045 | 6445 | 8032 | 2451 | | |
| | OP-HGZ064E | 114N3046 | N | MTZ064 | 35°C | 5194 | 6897 | 8846 | 11047 | 13499 | 3060 | |
| | | 114N3047 | Q | | 43°C | 4441 | 6016 | 7807 | 9817 | 12048 | 3141 | |
| | | 114N3048 | R | | 48°C | 3968 | 5451 | 7131 | 9014 | 11098 | 3166 | |
| | OP-HGZ072E | 114N3051 | Q | MTZ072 | 35°C | 5906 | 7791 | 9938 | 12348 | 15025 | 3333 | |
| | | 114N3052 | R | | 43°C | 5001 | 6765 | 8759 | 10987 | 13452 | 3426 | |
| | | | 48°C | | 4410 | 6087 | 7974 | 10080 | 12403 | 3456 | | |
| | OP-HGZ080E | 114N3055 | Q | MTZ080 | 35°C | 6709 | 8788 | 11137 | 13760 | 16651 | 3900 | |
| | | | R | | 43°C | 5725 | 7662 | 9838 | 12250 | 14899 | 4009 | |
| | | 48°C | 5108 | | 6946 | 9002 | 11275 | 13765 | 4050 | | | |
| | OP-HGZ100E | 114N3059 | Q | MTZ100 | 35°C | 6797 | 9220 | 12039 | 15265 | 18895 | 4334 | |
| | | 114N3060 | R | | 43°C | 5488 | 7711 | 10283 | 13209 | 16496 | 4412 | |
| | | | 48°C | | 4696 | 6778 | 9177 | 11903 | 14963 | 4416 | | |
| OP-HGZ125E | 114N3063 | Q | MTZ125 | 35°C | 8732 | 11778 | 15338 | 19420 | 24030 | 4984 | | |
| | 114N3064 | R | | 43°C | 7205 | 9982 | 13203 | 16882 | 21022 | 5038 | | |
| | | 48°C | | 6292 | 8873 | 11856 | 15259 | 19085 | 5026 | | | |
| OP-HGZ144E | 114N3067 | Q | MTZ144 | 35°C | 11740 | 15140 | 19007 | 23345 | 28143 | 6783 | | |
| | 114N3068 | R | | 43°C | 10062 | 13199 | 16739 | 20688 | 25044 | 6975 | | |
| | | 48°C | | 8993 | 11942 | 15261 | 18948 | 23009 | 7044 | | | |
| OP-HGZ160E | 114N3071 | Q | MTZ160 | 35°C | 13121 | 16876 | 21138 | 25910 | 31180 | 7352 | | |
| | | R | | 43°C | 11171 | 14656 | 18584 | 22961 | 27784 | 7507 | | |
| | 48°C | 9920 | | 13218 | 16923 | 21038 | 25564 | 7543 | | | | |

Test condition: SH 10 K

Electrical code

- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q** Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz
- R** Compressor 460 V/3 phase/60 Hz, fan 460 V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|--------------|---------------|--------------|-------------|-------------|
| | | | Height H [mm] | Width W [mm] | Length D [mm] | Suction line | Liquid line | |
| OP-HCZ018E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 45 |
| OP-HCZ022E | 3.1 | 3 | 442 | 700 | 500 | 1/2 " | 3/8 " | 54 |
| OP-HCZ028E | 6 | 3 | 548 | 800 | 600 | 1/2 " | 1/2 " | 61 |
| OP-HCZ032E | 8 | 3 | 548 | 800 | 600 | 5/8 " | 1/2 " | 69 |
| OP-HCZ036E | 8 | 3 | 548 | 800 | 600 | 5/8 " | 1/2 " | 70 |
| OP-HCZ040E | 8 | 3 | 696 | 800 | 700 | 5/8 " | 1/2 " | 81 |
| OP-HCZ044E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 85 |
| OP-HCZ050E | 8 | 3 | 696 | 800 | 700 | 7/8 " | 1/2 " | 91 |
| OP-HGZ064E | 8 | 4 | 671 | 1200 | 800 | 7/8 " | 1/2 " | 119 |
| OP-HGZ072E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 122 |
| OP-HGZ080E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 128 |
| OP-HGZ100E | 14 | 4 | 671 | 1200 | 800 | 1 1/8 " | 5/8 " | 154 |
| OP-HGZ125E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 225 |
| OP-HGZ144E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 230 |
| OP-HGZ160E | 14 | 4 | 975 | 1500 | 870 | 1 1/8 " | 5/8 " | 245 |

Electrical characteristics - 230V/1phase

| Model | Wiring diagram | MCA [A] 115 V/ 1 phase | MCA [A] 230 V/ 1 phase |
|--------------|----------------|------------------------------|------------------------------|
| OP-UCGC0017R | 119-3987 | 4.1 | |
| OP-UCGC0020R | 119-3987 | 6.1 | |
| OP-UCGC0025R | 119-3987 | 6.4 | |
| OP-HCGC0033R | 119-3987 | 11.6 | |
| OP-UCGC0050R | 119-3992 | 13.7 | |
| OP-HCZ018E | 191U601500 | | 12.1 |
| OP-HCZ022E | 191U601500 | | 16.3 |
| OP-HCZ028E | 191U601500 | | 25.9 |
| OP-HCZ032E | 191U601500 | | 27.2 |
| OP-HCZ036E | 191U601500 | | 30.3 |
| OP-HCZ040E | 191U601500 | | 33.9 |
| OP-HCZ044E | 191U601500 | | 31.2 |
| OP-HCZ050E | 191U601500 | | 35.7 |
| OP-HGZ064E | 191U601510 | | 48.2 |

Electrical characteristics - 3phases

| Unit | Wiring diagram | MCA [A] 220V/3P | MCA [A] 460V/3P |
|------------|--|-----------------------|-----------------------|
| OP-HCZ018E | 191U601600 (230V) 191U601700 (460V) | 8.5 | |
| OP-HCZ022E | 191U601600 (230V) 191U601700 (460V) | 11 | |
| OP-HCZ028E | 191U601600 (230V) 191U601700 (460V) | 17.8 | |
| OP-HCZ032E | 191U601600 (230V) 191U601700 (460V) | 19.6 | |
| OP-HCZ036E | 191U601600 (230V) 191U601700 (460V) | 18.7 | |
| OP-HCZ040E | 191U601600 (230V) 191U601700 (460V) | 23.2 | |
| OP-HCZ044E | 191U601600 (230V) 191U601700 (460V) | 23.2 | |
| OP-HCZ050E | 191U601600 (230V) 191U601700 (460V) | 25.9 | |
| OP-HGZ064E | 191U601600 (230V) 191U601700 (460V) | 33 | |
| OP-HGZ072E | 191U601610 (230V) 191U601710 (460V) | 34.8 | 17.4 |
| OP-HGZ080E | 191U601610 (230V) 191U601710 (460V) | 35.8 | 19.7 |
| OP-HGZ100E | 191U601610 (230V) 191U601710 (460V) | 45.6 | 23.2 |
| OP-HGZ125E | 191U601610 (230V) 191U601710 (460V) | 55.8 | 27.9 |
| OP-HGZ144E | 191U601610 (230V) 191U601710 (460V) | 64.7 | 30.6 |
| OP-HGZ160E | 191U601610 (230V) 191U601710 (460V) | 70.1 | 35.9 |

Spare parts

| Model | Condenser | Receiver | Service valve | | Fan motor | | | Filter drier | Sight glass | Pressure control |
|--------------|------------|----------|---------------|------------|-----------|------------|------------|--------------|-------------|------------------|
| | | | Suction | Discharge | 115V | 230V | 460V | | | |
| OP-UCGC0017R | 119-3176 | | 119-3610 | 119-3609 | 119-3250 | | | | | |
| OP-UCGC0020R | 119-3169 | | 119-3610 | 119-3609 | 119-3256 | | | | | |
| OP-UCGC0025R | 119-3169 | 118U0520 | 119-3610 | 119-3609 | 119-3256 | | | | | |
| OP-HCGC0033R | 119-3170 | 118U0520 | 119-3610 | 119-3611 | 119-3257 | | | | | |
| OP-UCGC0050R | 119-3172 | 118U0520 | 119-3978 | 119-3611 | 119-3257 | | | | | |
| OP-HCZ018E | 191U131500 | 118U6009 | 6804501V06 | 6804501V06 | | 191U137020 | 191U137520 | 023Z5040 | 014-0182 | 060-518466 |
| OP-HCZ022E | 191U131600 | 118U6009 | * | 6804501V06 | | 191U137120 | 191U137620 | 023Z5040 | 014-0182 | 060-518466 |
| OP-HCZ028E | 191U131700 | 118U6010 | ** | 6804501V06 | | 191U137320 | 191U137820 | 023Z5041 | 014-0173 | 060-518466 |
| OP-HCZ032E | 191U131700 | 118U6011 | 6804502V09 | 6804501V06 | | 191U137320 | 191U137820 | 023Z5041 | 014-0173 | 060-518466 |
| OP-HCZ036E | 191U131800 | 118U6011 | 6804502V09 | 6804501V06 | | 191U137320 | 191U137820 | 023Z5041 | 014-0173 | 060-518466 |
| OP-HCZ040E | 191U131900 | 118U6011 | 6804503V04 | 6804501V06 | | 191U137320 | 191U137820 | 023Z5044 | 014-0173 | 060-518466 |
| OP-HCZ044E | 191U132000 | 118U6011 | 6804505V07 | 6804502V09 | | 191U137320 | 191U137820 | 023Z5044 | 014-0173 | 060-518466 |
| OP-HCZ050E | 191U132000 | 118U6011 | 6804505V07 | 6804502V09 | | 191U137320 | 191U137820 | 023Z5044 | 014-0173 | 060-518466 |
| OP-HGZ064E | 191U131000 | 118U6012 | 6804505V07 | 6804503V04 | | 191U137320 | 191U137820 | 023Z5044 | 014-0173 | 060-512566 |
| OP-HGZ072E | 191U131100 | 118U6013 | 6804505V07 | 6804503V04 | | 191U137320 | 191U137820 | 023Z5045 | 014-0174 | 060-512566 |
| OP-HGZ080E | 191U131100 | 118U6013 | 6804505V07 | 6804503V04 | | 191U137320 | 191U137820 | 023Z5045 | 014-0174 | 060-512566 |
| OP-HGZ100E | 191U131200 | 118U6013 | 6804506V02 | 6804503V04 | | 191U137320 | 191U137820 | 023Z5045 | 014-0174 | 060-512566 |
| OP-HGZ125E | 191U131305 | 118U6013 | 6804506V02 | 6804504V05 | | 191U137420 | 191U137920 | 023Z5045 | 014-0174 | 060-512566 |
| OP-HGZ144E | 191U131305 | 118U6013 | 6804506V02 | 6804504V05 | | 191U137420 | 191U137920 | 023Z5045 | 014-0174 | 060-512566 |
| OP-HGZ160E | 19U131405 | 118U6013 | 6804506V02 | 6804504V05 | | 191U137420 | 191U137920 | 023Z5045 | 014-0174 | 060-512566 |

* HCZ022E - code Q & R, suction: 6804501V06

HCZ022E - code N, suction: 6804531V15

** HCZ028E - code Q & R, suction: 6804501V06

HCZ028E - code N, suction: 6804531V15

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|--------|--|---|
| | | | | | -15°C | -10°C | -5°C | -0°C | +5°C | | |
| OP-HRU015E | 114N8251 | N | MLZ015 | 35°C | 3230 | 3914 | 4666 | 5489 | 6387.4 | 2200 | 43°C: -15°C to +5°C 48°C: -15°C to -10°C |
| | 114N8252 | Q | | 43°C | 2666 | 3269 | 3927 | 4646 | 5431.3 | 2600 | |
| | | | | 48°C | 2290 | 2843 | | | | 2900 | |
| OP-HRU021E | 114N8256 | N | MLZ021 | 35°C | 4750 | 5704 | 6767 | 7942 | 9227.7 | 2800 | |
| | 114N8257 | Q | | 43°C | 4046 | 4888 | 5832 | 6883 | 8042.6 | 3400 | |
| | | | | 48°C | 3583 | 4356 | | | | 3700 | |
| OP-HRU030E | 114N8261 | N | MLZ030 | 35°C | 6887 | 8259 | 9791 | 11483 | 13334 | 4000 | |
| | 114N8262 | Q | | 43°C | 5841 | 7041 | 8390 | 9893 | 11554 | 4800 | |
| | | | | 48°C | 5152 | 6244 | | | | 5300 | |
| OP-HRU038E | 114N8266 | N | MLZ038 | 35°C | 8322 | 9976 | 11801 | 13807 | 16013 | 4900 | |
| | 114N8267 | Q | | 43°C | 7069 | 8529 | 10137 | 11910 | 13866 | 5700 | |
| | | | | 48°C | 6224 | 7566 | | | | 6300 | |
| OP-HRU048E | 114N8271 | Q | MLZ048 | 35°C | 11064 | 13000 | 15087 | 17306 | 19641 | 6700 | |
| | | | | 43°C | 9424 | 11075 | 12860 | 14765 | | 7900 | |
| | | | | 48°C | 8319 | | | | | | |
| OP-HRU058E | 114N8275 | Q | MLZ058 | 35°C | 13344 | 16295 | 19537 | 23088 | 26960 | 7100 | |
| | | | | 43°C | 11044 | 13611 | 16417 | 19484 | 22829 | 8300 | |
| | | | | 48°C | 9545 | 11862 | 14386 | 17143 | 20155 | 9200 | |
| OP-HRU076E | 114N8279 | Q | MLZ076 | 35°C | 17214 | 20541 | 24244 | 28328 | 32801 | 9800 | |
| | | | | 43°C | 14625 | 17466 | 20621 | 24120 | 27948 | 11400 | |
| | | | | 48°C | 12924 | 15458 | 18269 | | | 12500 | |

Test condition: SH 10K

Electrical code

- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q** Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz

QUICK REFERENCE
R404A/R507 MBP SCROLL

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|----------------------------|--------------|---------------------------|---------------|----------------------------|--------------|-------------|-------------|
| | | | Height H [mm] | Height with housing H [mm] | Width W [mm] | Width with housing W [mm] | Length D [mm] | Length with housing D [mm] | Suction line | Liquid line | |
| OP-HRU015E | 3 | 5 | 442 | 494 | 800 | 805 | 600 | 609 | 5/8" | 1/2" | 60 |
| OP-HRU021E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 5/8" | 1/2" | 90 |
| OP-HRU030E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 7/8" | 1/2" | 90 |
| OP-HRU038E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 3/4" | 1/2" | 118 |
| OP-HRU048E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 7/8" | 1/2" | 118 |
| OP-HRU058E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |
| OP-HRU076E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|--|------------------------|
| | | | | | -15°C | -10°C | -5°C | 0°C | +5°C | | |
| OP-HRU015E | 114N8251 | N | MLZ015 | 35°C | 1986 | 2535 | 3178 | 3910 | 4727 | 1119 | 48°C: -15°C to +5°C |
| | 114N8252 | Q | | 43°C | 1762 | 2274 | 2873 | 3555 | 4316 | 1296 | |
| | | | | 48°C | 1616 | 2101 | 2670 | 3319 | 4043 | 1418 | |
| OP-HRU021E | 114N8256 | N | MLZ021 | 35°C | 2663 | 3461 | 4351 | 5342 | 6440 | 1497 | |
| | 114N8257 | Q | | 43°C | 2325 | 3089 | 3933 | 4863 | 5887 | 1721 | |
| | | | | 48°C | 2096 | 2839 | 3651 | 4542 | 5519 | 1867 | |
| OP-HRU030E | 114N8261 | N | MLZ030 | 35°C | 4017 | 5132 | 6427 | 7896 | 9529 | 2238 | |
| | 114N8262 | Q | | 43°C | 3545 | 4590 | 5802 | 7171 | 8693 | 2583 | |
| | | | | 48°C | 3232 | 4229 | 5384 | 6689 | 8137 | 2814 | |
| OP-HRU038E | 114N8266 | N | MLZ038 | 35°C | 4843 | 6120 | 7661 | 9445 | 11449 | 2589 | |
| | 114N8267 | Q | | 43°C | 4364 | 5525 | 6945 | 8602 | 10471 | 3035 | |
| | | | | 48°C | 4060 | 5138 | 6473 | 8041 | 9817 | 3346 | |
| OP-HRU048E | 114N8271 | Q | MLZ048 | 35°C | 6322 | 7986 | 9931 | 12151 | 14641 | 3284 | |
| | | | | 43°C | 5582 | 7099 | 8884 | 10932 | 13237 | 3847 | |
| | | | | 48°C | 5115 | 6532 | 8209 | 10143 | 12328 | 4241 | |
| OP-HRU058E | 114N8275 | Q | MLZ058 | 35°C | 7687 | 9677 | 11985 | 14615 | 17570 | 3883 | |
| | | | | 43°C | 6910 | 8706 | 10812 | 13236 | 15980 | 4544 | |
| | | | | 48°C | 6433 | 8092 | 10060 | 12341 | 14940 | 4994 | |
| OP-HRU076E | 114N8279 | Q | MLZ076 | 35°C | 9841 | 12264 | 15127 | 18401 | 22058 | 5251 | |
| | | | | 43°C | 8700 | 10963 | 13624 | 16658 | 20037 | 6136 | |
| | | | | 48°C | 7943 | 10102 | 12633 | 15515 | 18716 | 6733 | |

Test condition: SH 10 K

Electrical code

N: compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz

Q: compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|----------------------------|--------------|---------------------------|---------------|----------------------------|--------------|-------------|-------------|
| | | | Height H [mm] | Height with housing H [mm] | Width W [mm] | Width with housing W [mm] | Length D [mm] | Length with housing D [mm] | Suction line | Liquid line | |
| OP-HRU015E | 3 | 5 | 442 | 494 | 800 | 805 | 600 | 609 | 5/8" | 1/2" | 60 |
| OP-HRU021E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 5/8" | 1/2" | 90 |
| OP-HRU030E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 7/8" | 1/2" | 90 |
| OP-HRU038E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 3/4" | 1/2" | 118 |
| OP-HRU048E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 7/8" | 1/2" | 81 |
| OP-HRU058E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |
| OP-HRU076E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C evap temp | Application range [°C] |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|--|---|
| | | | | | -15°C | -10°C | -5°C | 0°C | +5°C | | |
| OP-HRU015E | 114N8251 | N | MLZ015 | 35°C | 3277 | 4050 | 4873 | 5761 | 6725 | 1800 | 43°C: -15°C to +5°C 48°C: -5°C to +5°C |
| | 114N8252 | Q | | 43°C | 2965 | 3682 | 4443 | 5261 | 6148 | 2000 | |
| | | | | 48°C | | | 4172 | 4940 | 5776 | | |
| OP-HRU021E | 114N8256 | N | MLZ021 | 35°C | 4962 | 5757 | 6792 | 8016 | 9388 | 2600 | |
| | 114N8257 | Q | | 43°C | | 5258 | 6202 | 7336 | 8621 | 2900 | |
| | | | | 48°C | | | 5859 | 6940 | 8171 | | |
| OP-HRU030E | 114N8261 | N | MLZ030 | 35°C | 6619 | 8241 | 9946 | 11769 | 13744 | 3600 | |
| | 114N8262 | Q | | 43°C | 6077 | 7527 | 9067 | 10732 | 12556 | 4200 | |
| | | | | 48°C | | | 8489 | 10050 | 11774 | | |
| OP-HRU038E | 114N8266 | N | MLZ038 | 35°C | 8305 | 9888 | 11778 | 13930 | 16301 | 4100 | |
| | 114N8267 | Q | | 43°C | 7521 | 8968 | 10718 | 12728 | 14953 | 4800 | |
| | | | | 48°C | | | 10062 | 11978 | 14119 | | |
| OP-HRU048E | 114N8271 | Q | MLZ048 | 35°C | 10350 | 12647 | 15182 | 17932 | 20886 | 5700 | |
| | | | | 43°C | | 11310 | 13630 | 16148 | 18843 | 7600 | |
| | | | | 48°C | | | 12573 | 14933 | 17460 | | |
| OP-HRU058E | 114N8275 | Q | MLZ058 | 35°C | 13185 | 15821 | 19017 | 22726 | 26895 | 6200 | |
| | | | | 43°C | 11579 | 14112 | 17167 | 20694 | 24644 | 7300 | |
| | | | | 48°C | | 12945 | 15912 | 19326 | 23142 | 8000 | |
| OP-HRU076E | 114N8279 | Q | MLZ076 | 35°C | 17542 | 20890 | 24780 | 29169 | 34018 | 8700 | |
| | | | | 43°C | 15880 | 18953 | 22548 | 26629 | 31160 | 10300 | |
| | | | | 48°C | | | 21091 | 24984 | 29323 | | |

Test condition: SH 10 K

Electrical code

- N Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|----------------------------|--------------|---------------------------|---------------|----------------------------|--------------|-------------|-------------|
| | | | Height H [mm] | Height with housing H [mm] | Width W [mm] | Width with housing W [mm] | Length D [mm] | Length with housing D [mm] | Suction line | Liquid line | |
| OP-HRU015E | 3 | 5 | 442 | 494 | 800 | 805 | 600 | 609 | 5/8" | 1/2" | 60 |
| OP-HRU021E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 5/8" | 1/2" | 90 |
| OP-HRU030E | 8 | 5 | 558 | 590 | 1000 | 1005 | 700 | 715 | 7/8" | 1/2" | 90 |
| OP-HRU038E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 3/4" | 1/2" | 118 |
| OP-HRU048E | 10 | 5 | 671 | 704 | 1200 | 1204 | 800 | 805 | 7/8" | 1/2" | 81 |
| OP-HRU058E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |
| OP-HRU076E | 14 | 5 | 975 | 1003 | 1500 | 1505 | 870 | 880 | 1 1/8" | 5/8" | 237 |

Electrical characteristics - 230V/1phase

| Model | Wiring diagram | MCA [A] 230 V/ 1 phase |
|------------|----------------|------------------------------|
| OP-HRU015E | 119-7201 | 19 |
| OP-HRU021E | 119-7201 | 20 |
| OP-HRU030E | 119-7201 | 35 |
| OP-HRU038E | 119-7201 | 41 |

Electrical characteristics - 3phases

| Unit | Wiring diagram | MCA [A] 220V/3P |
|------------|----------------|-----------------------|
| OP-HRU015E | 118R0050 | 13 |
| OP-HRU021E | 118R0050 | 15 |
| OP-HRU030E | 118R0050 | 25 |
| OP-HRU038E | 118R0050 | 28 |
| OP-HRU048E | 118R0050 | 34.8 |
| OP-HRU058E | 118R0050 | 45 |
| OP-HRU076E | 118R0050 | 51 |

Spare parts (components)

| Unit | Condenser | Receiver | Fan motor | Weatherproof Housing | Filter drier Type | Sight glass type | Pressure control type |
|------------|------------|----------|------------|----------------------|-------------------|------------------|-----------------------|
| | | | 230Volts | | | | |
| OP-HRU015E | 118U0162 | 118U6009 | 7605518 | 119-7588 | 023Z5040 | 014-0172 | 060-126466 |
| OP-HRU021E | 191U130600 | 118U6011 | 191U137120 | 119-7586 | 023Z5041 | 014-0173 | 060-126466 |
| OP-HRU030E | 191U130700 | 118U6011 | 191U137120 | 119-7586 | 023Z5041 | 014-0173 | 060-126466 |
| OP-HRU038E | 191U131000 | 118U6012 | 7605524 | 119-7584 | 023Z5044 | 014-0173 | 060-126466 |
| OP-HRU048E | 191U131200 | 118U6012 | 7605524 | 119-7584 | 023Z5044 | 014-0173 | 060-126466 |
| OP-HRU058E | 191U131305 | 118U6013 | 191U137420 | 119-7582 | 023Z5045 | 014-0174 | 060-126466 |
| OP-HRU076E | 191U131305 | 118U6013 | 191U137420 | 119-7582 | 023Z5045 | 014-0174 | 060-126466 |

R404A/R507

R134a

R407C

R22

| Unit | Code (basic version) | Electrical code | Compressor | Amb. temp. °C | Capacity range in [W] at evaporating temperature [°C] | | | | | Power consumption (W) at -32°C Evap temp | Application range [°C] | |
|------------|----------------------|-----------------|------------|---------------|---|-------|-------|-------|-------|--|------------------------|---------------------|
| | | | | | -15°C | -10°C | -5°C | 0°C | +5°C | | | |
| | OP-HCM018E | 114N5001 | N | MT018 | 35°C | 1599 | 2125 | 2731 | 3411 | 4161 | 1207 | 48°C: -15°C to +5°C |
| | | 114N5002 | Q | | 43°C | 1354 | 1811 | 2336 | 2926 | 3578 | 1268 | |
| | | 114N5003 | R | | 48°C | 1208 | 1617 | 2087 | 2619 | 3206 | 1303 | |
| | OP-HCM022E | 114N5006 | N | MT022 | 35°C | 2375 | 3128 | 3962 | 4874 | 5858 | 1554 | |
| | | 114N5007 | Q | | 43°C | 1954 | 2640 | 3397 | 4219 | 5105 | 1606 | |
| | | 114N5008 | R | | 48°C | 1693 | 2334 | 3038 | 3804 | 4626 | 1626 | |
| | OP-HCM028E | 114N5011 | N | MT028 | 35°C | 3749 | 4767 | 5889 | 7112 | 8433 | 2180 | |
| | | 114N5012 | Q | | 43°C | 3224 | 4167 | 5200 | 6322 | 7527 | 2270 | |
| | | 114N5013 | R | | 48°C | 2886 | 3779 | 4752 | 5807 | 6938 | 2316 | |
| | OP-HCM032E | 114N5016 | N | MT032 | 35°C | 3978 | 5086 | 6332 | 7717 | 9239 | 2535 | |
| | | 114N5017 | Q | | 43°C | 3433 | 4461 | 5612 | 6888 | 8286 | 2656 | |
| | | 114N5018 | R | | 48°C | 3122 | 4096 | 5183 | 6386 | 7702 | 2727 | |
| | OP-HCM036E | 114N5021 | N | MT036 | 35°C | 4784 | 6020 | 7365 | 8818 | 10369 | 2857 | |
| | | 114N5022 | Q | | 43°C | 4099 | 5249 | 6496 | 7832 | 9254 | 3026 | |
| | | 114N5023 | R | | 48°C | 3663 | 4755 | 5935 | 7197 | 8535 | 3131 | |
| OP-HCM040E | 114N5026 | N | MT040 | 35°C | 5163 | 6540 | 8068 | 9752 | 11593 | 3254 | | |
| | 114N5027 | Q | | 43°C | 4422 | 5748 | 7217 | 8829 | 10588 | 3438 | | |
| | 114N5028 | R | | 48°C | 3959 | 5252 | 6681 | 8248 | 9954 | 3527 | | |
| OP-HCM044E | 114N5031 | N | MT044 | 35°C | 5236 | 6626 | 8218 | 10009 | 11994 | 3320 | | |
| | 114N5032 | Q | | 43°C | 4599 | 5839 | 7257 | 8849 | 10613 | 3508 | | |
| | 114N5033 | R | | 48°C | 4220 | 5357 | 6658 | 8120 | 9741 | 3593 | | |
| OP-HCM050E | 114N5036 | N | MT050 | 35°C | 5748 | 7269 | 9037 | 11060 | 13334 | 3590 | | |
| | 114N5037 | Q | | 43°C | 4927 | 6309 | 7918 | 9756 | 11826 | 3803 | | |
| | 114N5038 | R | | 48°C | 4419 | 5707 | 7209 | 8928 | 10865 | 3915 | | |
| | OP-HGM064E | 114N5046 | N | MT064 | 35°C | 7687 | 9847 | 12292 | 15020 | 18030 | 4661 | |
| | | 114N5047 | Q | | 43°C | 6764 | 8750 | 10986 | 13478 | 16216 | 4955 | |
| | | 114N5048 | R | | 48°C | 6259 | 8124 | 10219 | 12550 | 15112 | 5098 | |
| | OP-HGM072E | 114N5051 | Q | MT072 | 35°C | 8650 | 11053 | 13729 | 16670 | 19867 | 5118 | |
| | | 114N5052 | R | | 43°C | 7689 | 9895 | 12335 | 15007 | 17898 | 5569 | |
| | | | 48°C | | 7188 | 9254 | 11531 | 14017 | 16705 | 5890 | | |
| | OP-HGM080E | 114N5055 | Q | MT080 | 35°C | 9712 | 12385 | 15344 | 18572 | 22059 | 5852 | |
| | | | R | | 43°C | 8627 | 11077 | 13772 | 16699 | 19847 | 6380 | |
| | | 48°C | 8048 | | 10342 | 12855 | 15580 | 18498 | 6753 | | | |
| | OP-HGM100E | 114N5059 | Q | MT100 | 35°C | 11146 | 14195 | 17654 | 21527 | 25800 | 7009 | |
| | | 114N5060 | R | | 43°C | 9528 | 12333 | 15506 | 19041 | 22932 | 7341 | |
| | | | 48°C | | 8674 | 11311 | 14285 | 17595 | 7551 | | | |
| | OP-HGM125E | 114N5063 | Q | MT125 | 35°C | 15353 | 19357 | 23868 | 28865 | 34337 | 9120 | |
| | | 114N5064 | R | | 43°C | 13392 | 16991 | 21028 | 25493 | 30370 | 9659 | |
| | | | 48°C | | 12252 | 15572 | 19290 | 23402 | 27886 | 9946 | | |
| OP-HGM144E | 114N5067 | Q | MT144 | 35°C | 17082 | 21424 | 26289 | 31661 | 37500 | 10338 | | |
| | 114N5068 | R | | 43°C | 14844 | 18715 | 23039 | 27790 | 32946 | 10909 | | |
| | | 48°C | | 13555 | 17099 | 21052 | 25395 | 30107 | 11210 | | | |
| OP-HGM160E | 114N5071 | Q | MT160 | 35°C | 18979 | 23775 | 29164 | 35133 | 41640 | 11602 | | |
| | | R | | 43°C | 16560 | 20849 | 25657 | 30954 | 36721 | 12234 | | |
| | 48°C | | | 19083 | 23491 | 28349 | | 12569 | | | | |

Test condition: SH 10 K

Electrical code

- N** Compressor 230V/1 phase/60 Hz, fan 230 V/1 phase/60 Hz
- Q** Compressor 208-230V/3 phase/60 Hz, fan 230 V/1 phase/60 Hz
- R** Compressor 460 V/3 phase/60 Hz, fan 460V/1 phase/60 Hz

| Model | Receiver volume [L] | Fig. | Dimensions [mm] | | | | | Weight [kg] |
|------------|---------------------|------|-----------------|---------------|---------------|--------------|-------------|-------------|
| | | | Width W [mm] | Length D [mm] | Height H [mm] | Suction line | Liquid line | |
| OP-HCM018E | 3.1 | 3 | 700 | 500 | 442 | 1/2 " | 3/8 " | 45 |
| OP-HCM022E | 3.1 | 3 | 700 | 500 | 442 | 1/2 " | 3/8 " | 54 |
| OP-HCM028E | 6 | 3 | 800 | 600 | 548 | 1/2 " | 1/2 " | 61 |
| OP-HCM032E | 8 | 3 | 800 | 600 | 548 | 5/8 " | 1/2 " | 69 |
| OP-HCM036E | 8 | 3 | 800 | 600 | 548 | 5/8 " | 1/2 " | 70 |
| OP-HCM040E | 8 | 3 | 800 | 700 | 696 | 5/8 " | 1/2 " | 81 |
| OP-HCM044E | 8 | 3 | 800 | 700 | 696 | 7/8 " | 1/2 " | 85 |
| OP-HCM050E | 8 | 3 | 800 | 700 | 696 | 7/8 " | 1/2 " | 91 |
| OP-HGM064E | 8 | 4 | 1200 | 800 | 671 | 7/8 " | 1/2 " | 119 |
| OP-HGM072E | 14 | 4 | 1200 | 800 | 671 | 1 1/8 " | 5/8 " | 122 |
| OP-HGM080E | 14 | 4 | 1200 | 800 | 671 | 1 1/8 " | 5/8 " | 128 |
| OP-HGM100E | 14 | 4 | 1200 | 800 | 671 | 1 1/8 " | 5/8 " | 154 |
| OP-HGM125E | 14 | 4 | 1500 | 870 | 975 | 1 1/8 " | 5/8 " | 225 |
| OP-HGM144E | 14 | 4 | 1500 | 870 | 975 | 1 1/8 " | 5/8 " | 230 |
| OP-HGM160E | 14 | 4 | 1500 | 870 | 975 | 1 1/8 " | 5/8 " | 245 |

Electrical characteristics - 230V/1phase

| Model | Wiring diagram | MCA [A] 230 V/ 1 phase |
|------------|----------------|------------------------------|
| OP-HCM018E | 191U601500 | 12.1 |
| OP-HCM022E | 191U601500 | 16.4 |
| OP-HCM028E | 191U601500 | 25.9 |
| OP-HCM032E | 191U601500 | 27.3 |
| OP-HCM036E | 191U601500 | 30.4 |
| OP-HCM040E | 191U601500 | 34 |
| OP-HCM044E | 191U601500 | 31.3 |
| OP-HCM050E | 191U601500 | 35.7 |
| OP-HGM064E | 191U601510 | 48.3 |

Electrical characteristics - 3phase

| Unit | Wiring diagram | MCA [A] 220V/3P | MCA [A] 440V/3P |
|------------|--|-----------------------|-----------------------|
| OP-HCM018E | 191U601600 (230V) 191U601700 (460V) | 8.5 | 4.7 |
| OP-HCM022E | 191U601600 (230V) 191U601700 (460V) | 11 | 6 |
| OP-HCM028E | 191U601600 (230V) 191U601700 (460V) | 17.9 | 8.5 |
| OP-HCM032E | 191U601600 (230V) 191U601700 (460V) | 19.7 | 8.9 |
| OP-HCM036E | 191U601600 (230V) 191U601700 (460V) | 18.8 | 9.8 |
| OP-HCM040E | 191U601600 (230V) 191U601700 (460V) | 23.2 | 10.7 |
| OP-HCM044E | 191U601600 (230V) 191U601700 (460V) | 23.2 | 10.3 |
| OP-HCM050E | 191U601600 (230V) 191U601700 (460V) | 25.9 | 12.5 |
| OP-HGM064E | 191U601610 (230V) 191U601710 (460V) | 33.1 | 17 |
| OP-HGM072E | 191U601610 (230V) 191U601710 (460V) | 34.9 | 17.4 |
| OP-HGM080E | 191U601610 (230V) 191U601710 (460V) | 35.8 | 19.7 |
| OP-HGM100E | 191U601610 (230V) 191U601710 (460V) | 45.6 | 23.2 |
| OP-HGM125E | 191U601610 (230V) 191U601710 (460V) | 55.8 | 27.9 |
| OP-HGM144E | 191U601610 (230V) 191U601710 (460V) | 64.7 | 30.6 |
| OP-HGM160E | 191U601610 (230V) 191U601710 (460V) | 70.1 | 35.9 |

Spare parts (components)

| Unit | Condenser | Receiver | Rotalock valve | | Fan motor | | Filter drier | Sight glass | Pressure control |
|------------|------------|----------|----------------|------------|------------|------------|--------------|-------------|------------------|
| | | | Suction | Discharge | 230V | 460V | | | |
| OP-HCM018E | 191U131500 | 118U6009 | 6804501V06 | 6804501V06 | 191U137020 | 191U137520 | 023Z5005 | 014-0035 | 060-518466 |
| OP-HCM022E | 191U131600 | 118U6009 | 6804501V06 | 6804501V06 | 191U137120 | 191U137620 | 023Z5005 | 014-0035 | 060-518466 |
| OP-HCM028E | 191U131700 | 118U6010 | * | 6804501V06 | 191U137320 | 191U137820 | 023Z5006 | 014-0025 | 060-518466 |
| OP-HCM032E | 191U131700 | 118U6011 | ** | 6804501V06 | 191U137320 | 191U137820 | 023Z5006 | 014-0025 | 060-518466 |
| OP-HCM036E | 191U131800 | 118U6011 | 6804502V09 | 6804501V06 | 191U137320 | 191U137820 | 023Z5006 | 014-0025 | 060-518466 |
| OP-HCM040E | 191U131900 | 118U6011 | 6804502V09 | 6804501V06 | 191U137320 | 191U137820 | 023Z5009 | 014-0025 | 060-518466 |
| OP-HCM044E | 191U132000 | 118U6011 | 6804502V09 | 6804501V06 | 191U137320 | 191U137820 | 023Z5009 | 014-0025 | 060-518466 |
| OP-HCM050E | 191U132000 | 118U6011 | 6804502V09 | 6804501V06 | 191U137320 | 191U137820 | 023Z5009 | 014-0025 | 060-518466 |
| OP-HGM064E | 191U131000 | 118U6012 | 6804505V07 | 6804503V04 | 191U137320 | 191U137820 | 023Z5009 | 014-0025 | 060-512566 |
| OP-HGM072E | 191U131100 | 118U6013 | 6804505V07 | 6804503V04 | 191U137320 | 191U137820 | 023Z5010 | 014-0026 | 060-512566 |
| OP-HGM080E | 191U131100 | 118U6013 | 6804506V02 | 6804503V04 | 191U137320 | 191U137820 | 023Z5010 | 014-0026 | 060-512566 |
| OP-HGM100E | 191U131200 | 118U6013 | 6804506V02 | 6804503V04 | 191U137320 | 191U137820 | 023Z5010 | 014-0026 | 060-512566 |
| OP-HGM125E | 191U131305 | 118U6013 | 6804506V02 | 6804504V05 | 191U137420 | 191U137920 | 023Z5010 | 014-0026 | 060-512566 |
| OP-HGM144E | 191U131305 | 118U6013 | 6804506V02 | 6804504V05 | 191U137420 | 191U137920 | 023Z5010 | 014-0026 | 060-512566 |
| OP-HGM160E | 191U131405 | 118U6013 | 6804506V02 | 6804504V05 | 191U137420 | 191U137920 | 023Z5010 | 014-0026 | 060-512566 |

* HCM022E - code Q & R , suction: 6804501V06
 HCM022E - code N , suction: 6804531V15

** HCM028E - code Q & R, suction: 6804501V06
 HCM028E - code N, suction: 6804531V15

Figure 1

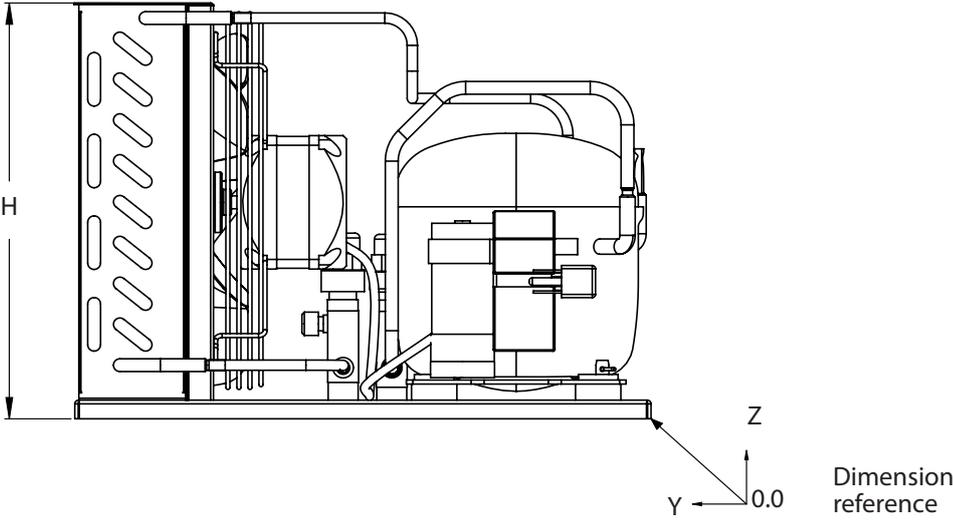
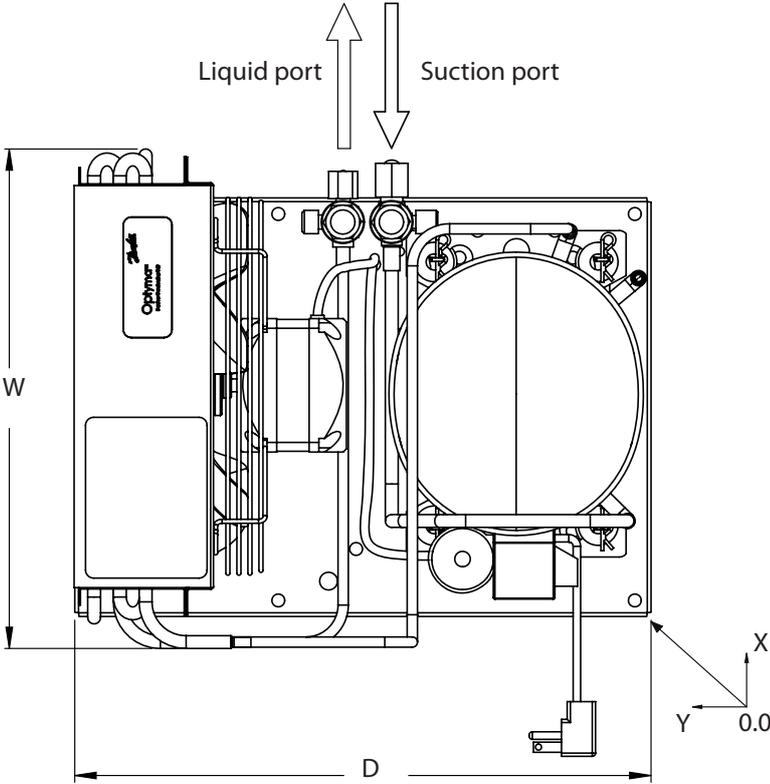
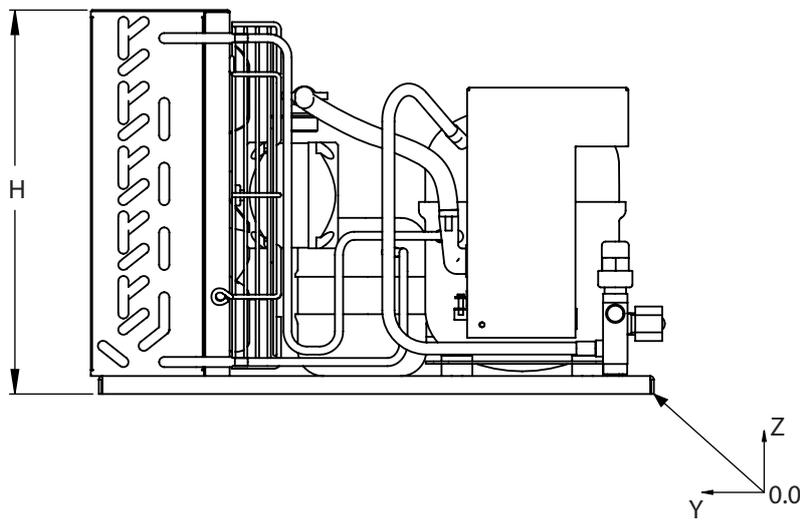
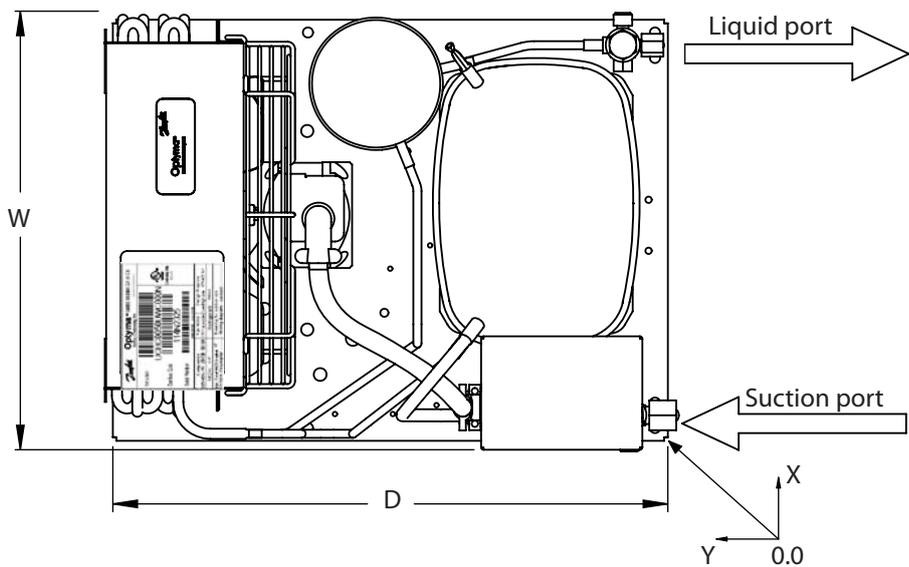


Figure 2



Dimension reference

Figure 3

HCM - LCZ - HCZ

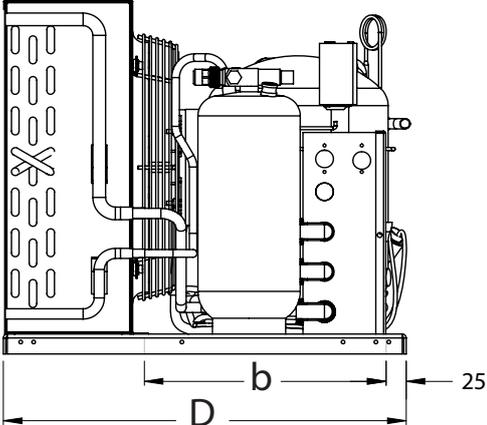
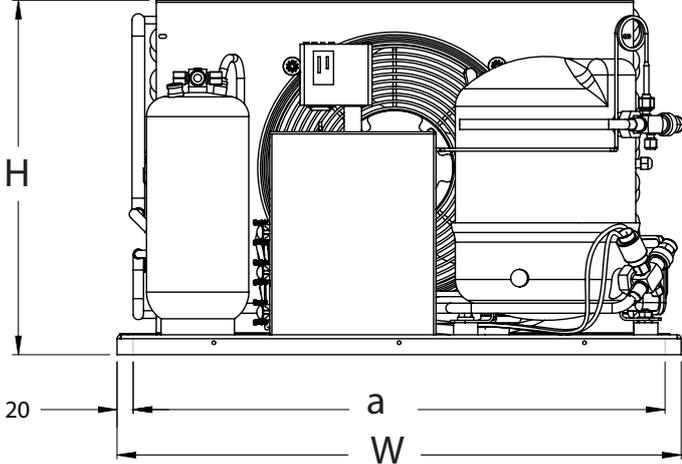


Figure 4

HGM - LGZ - HGZ

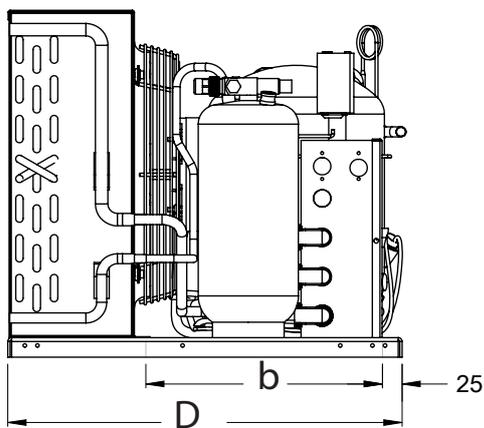
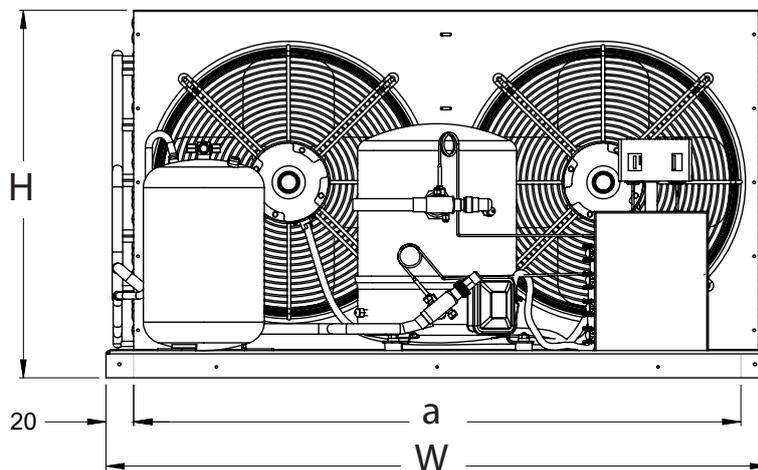
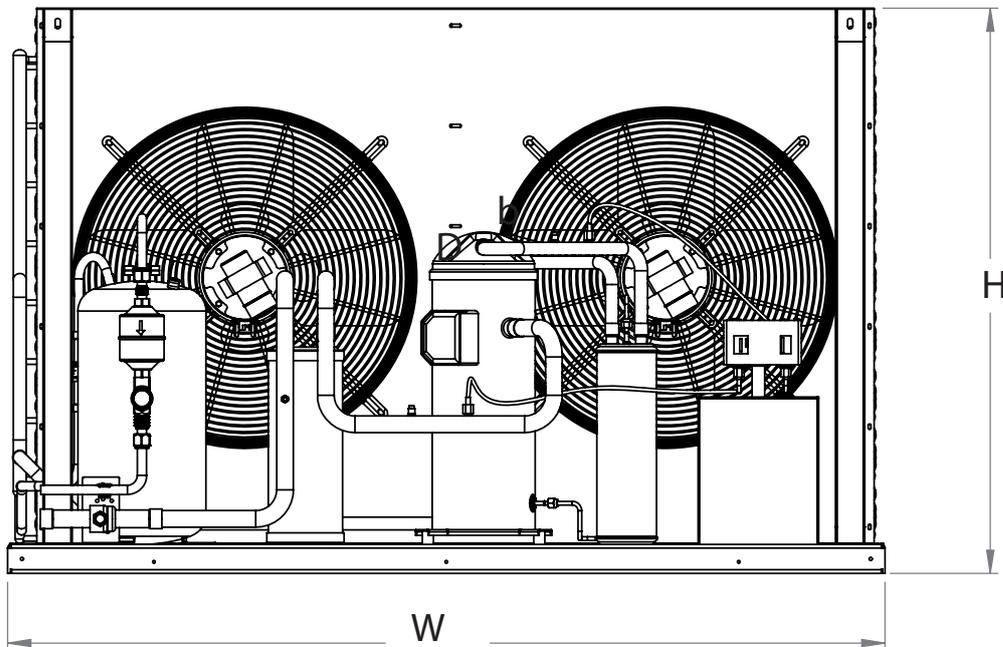
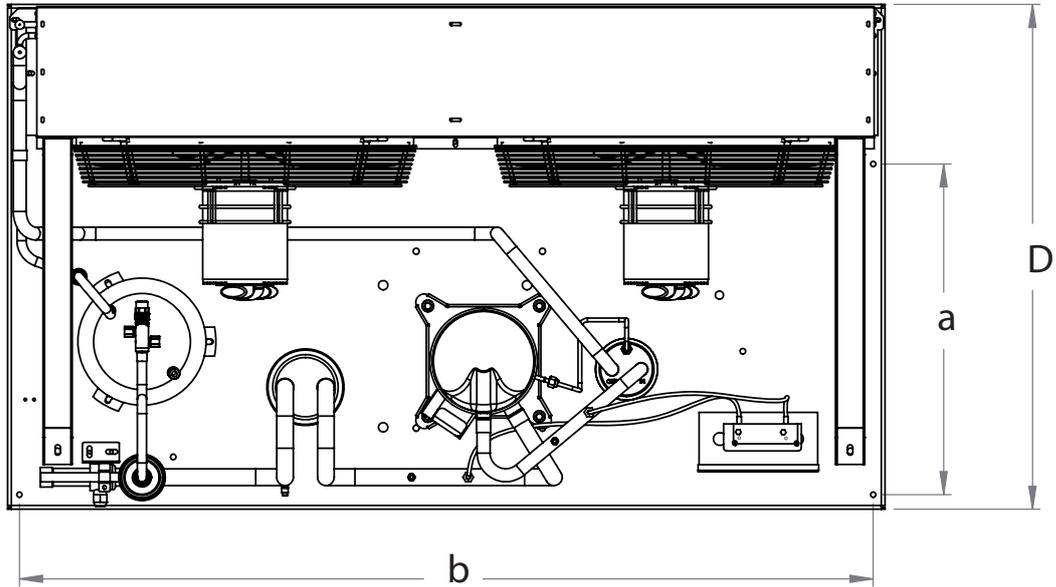
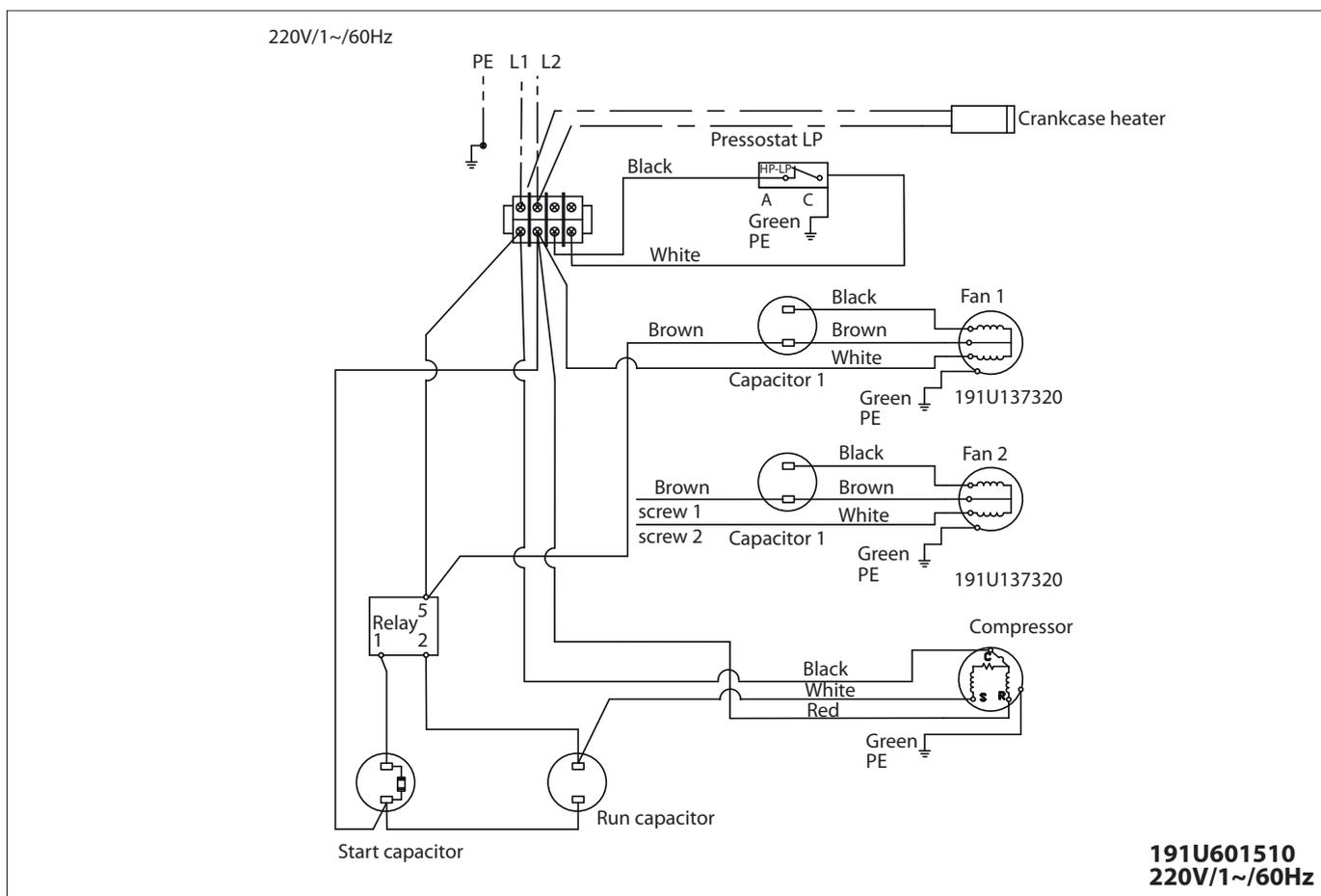
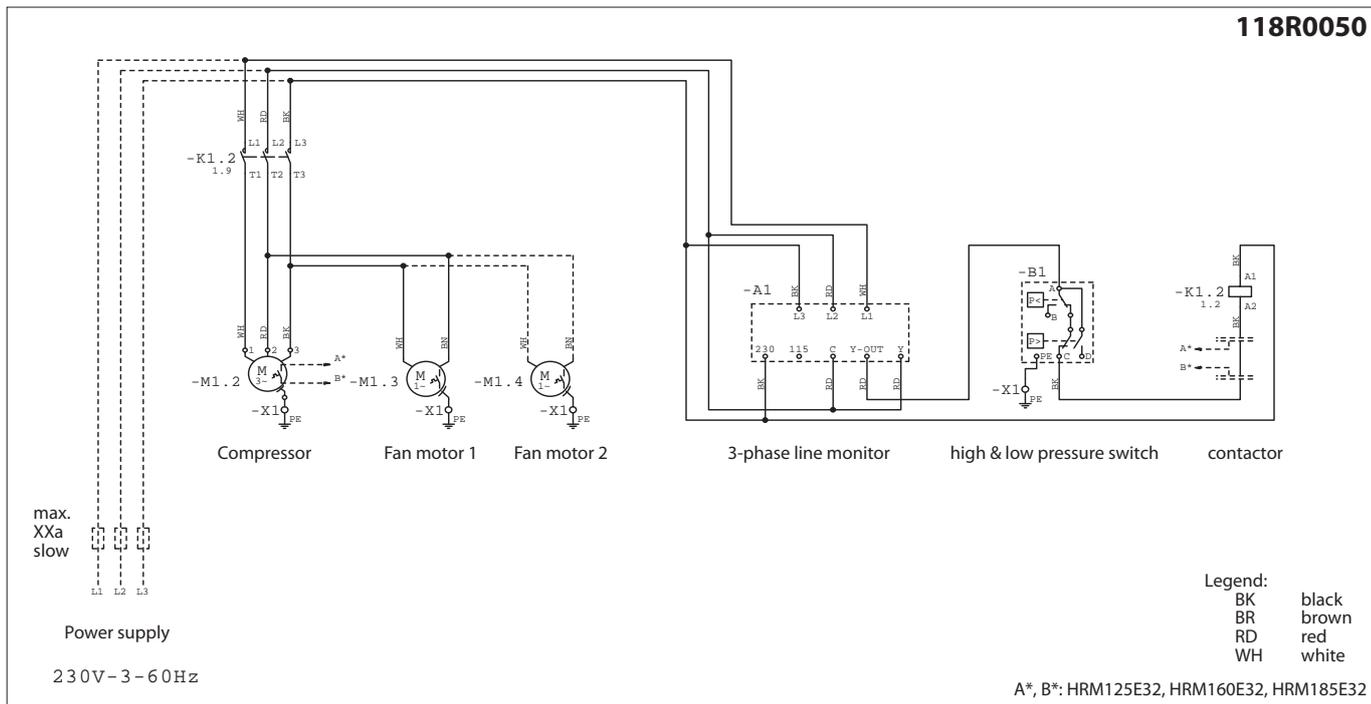
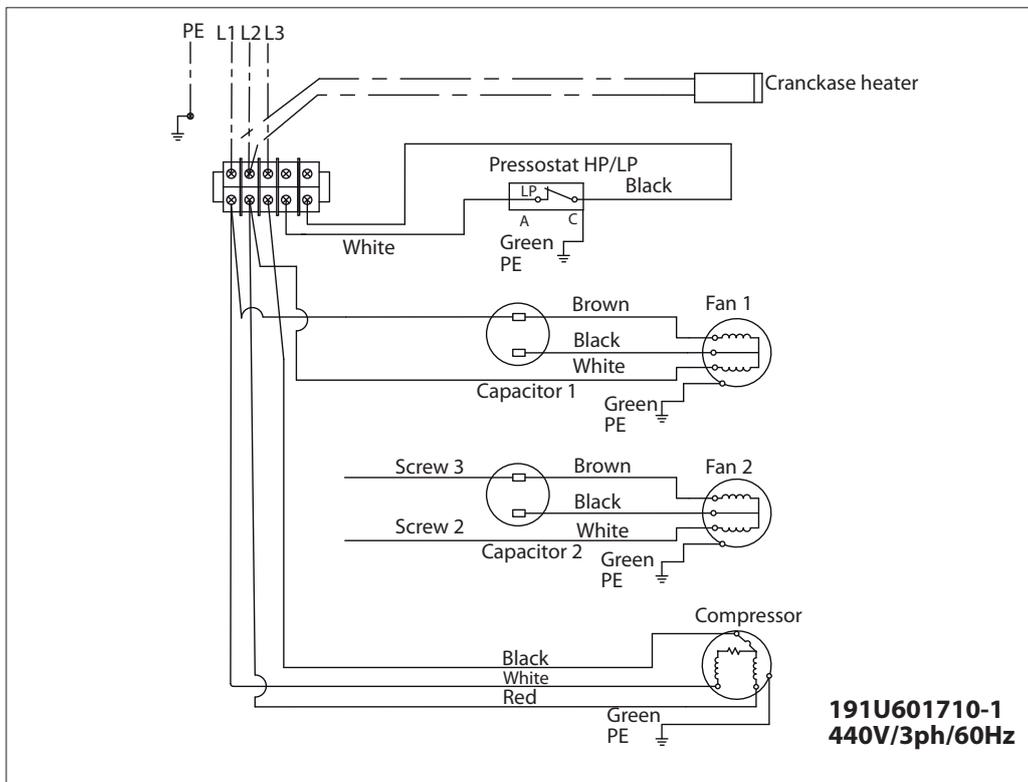
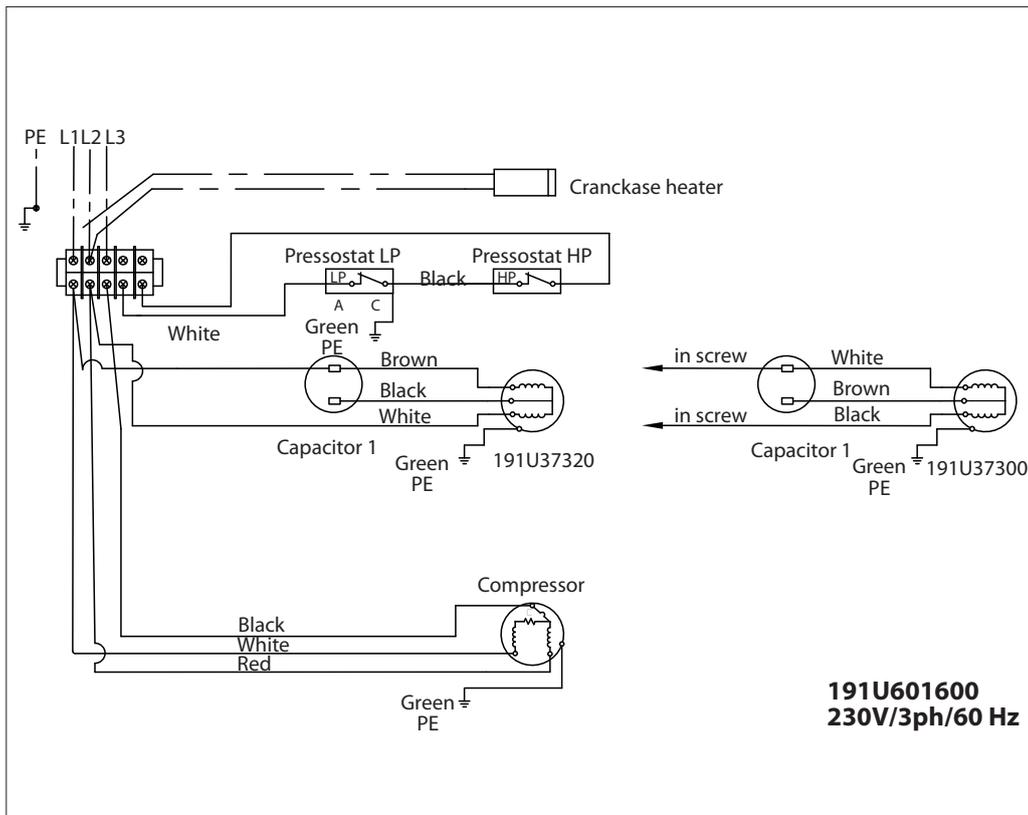


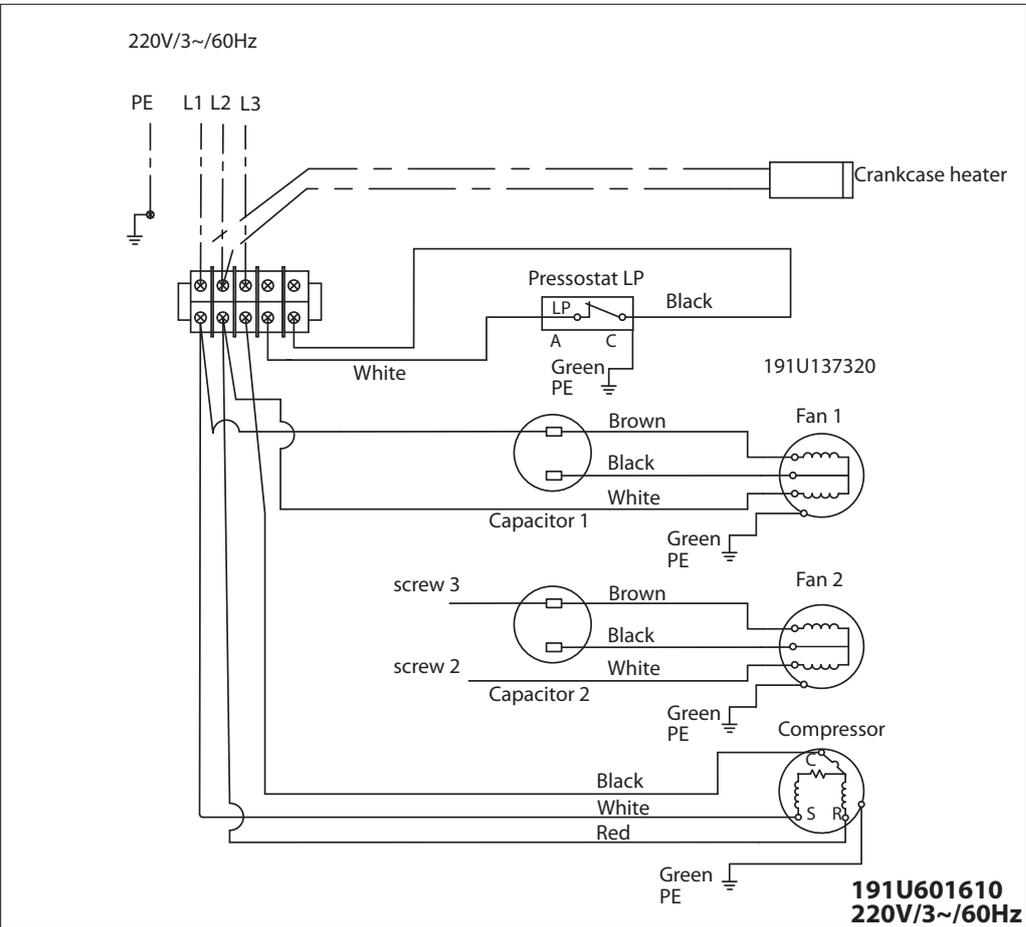
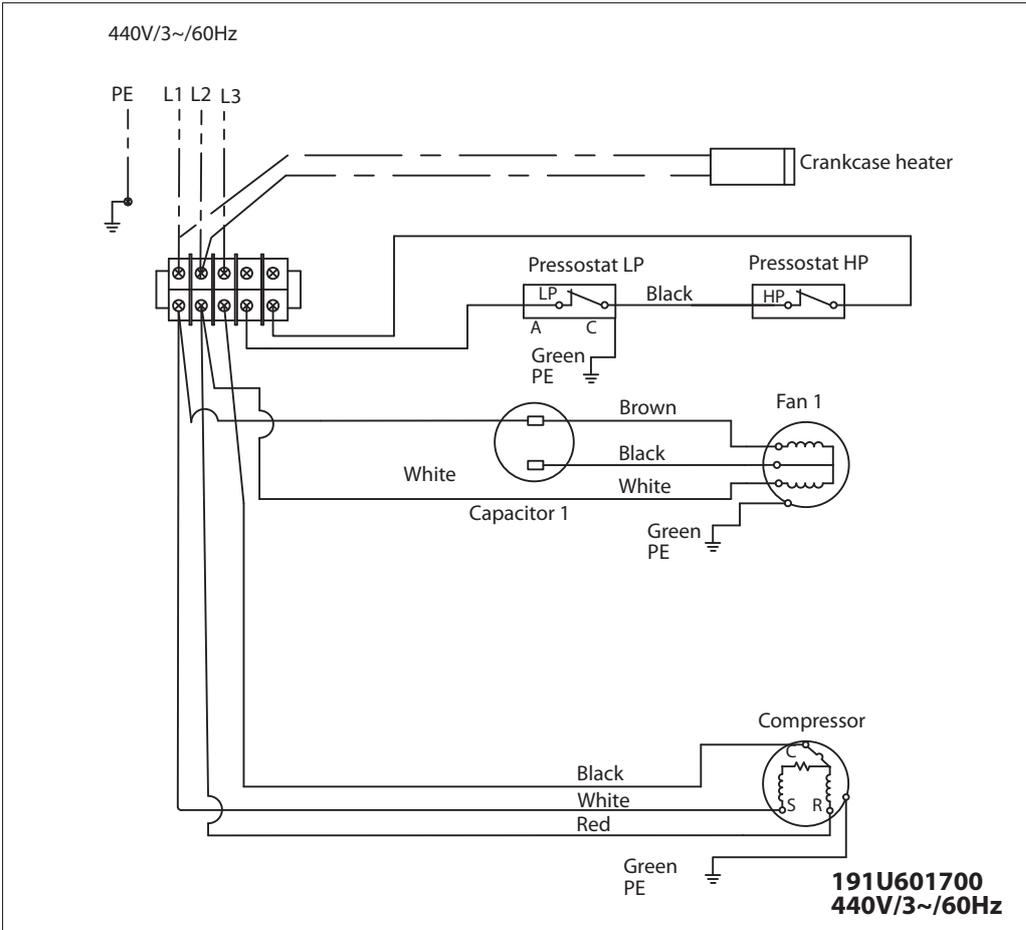
Figure 5

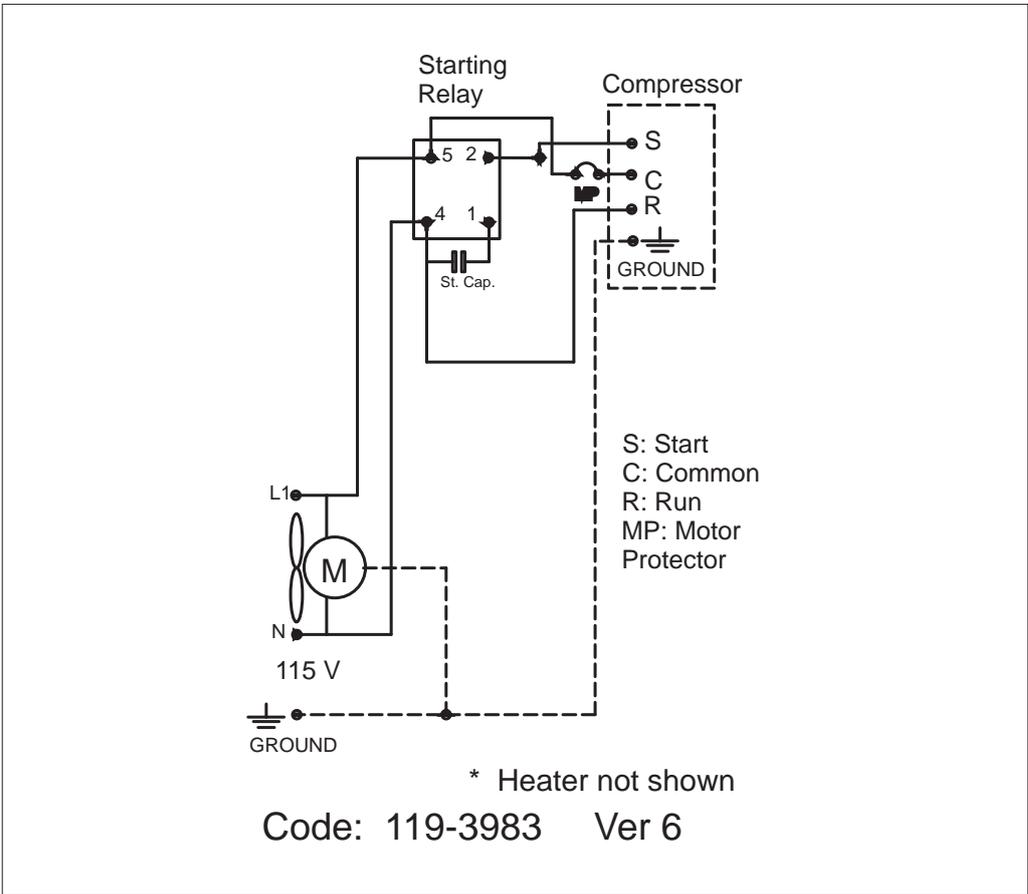
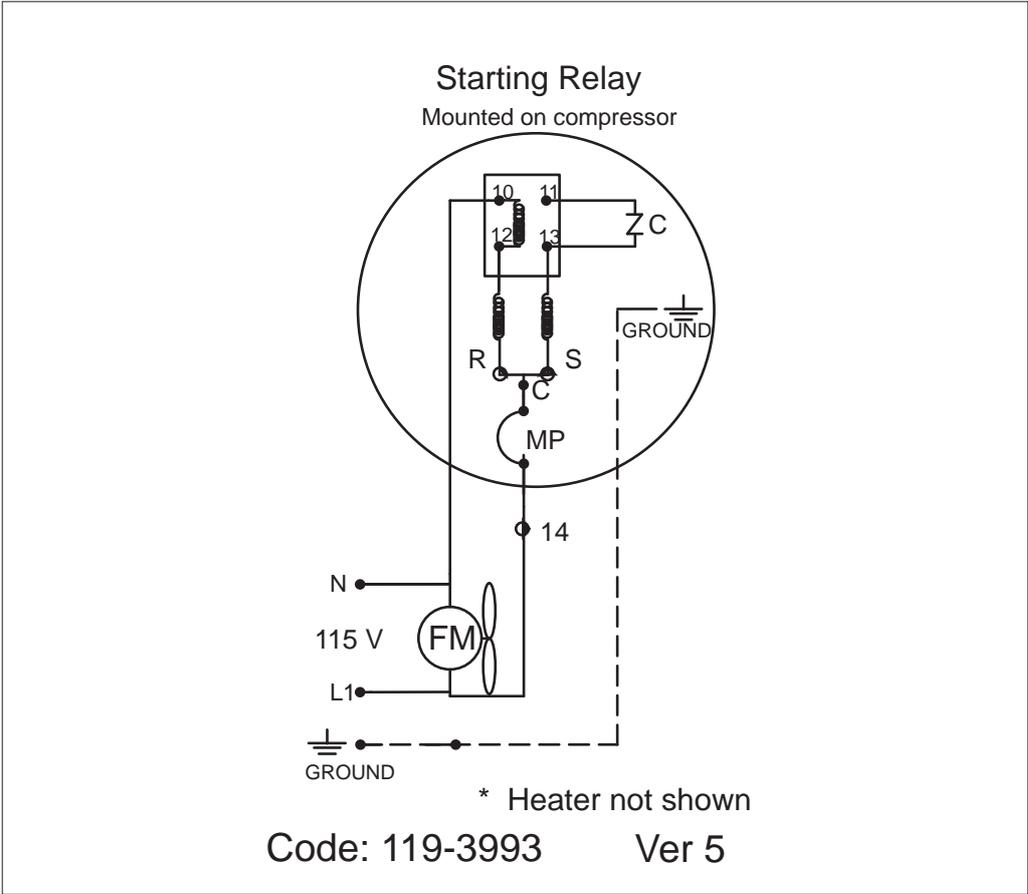


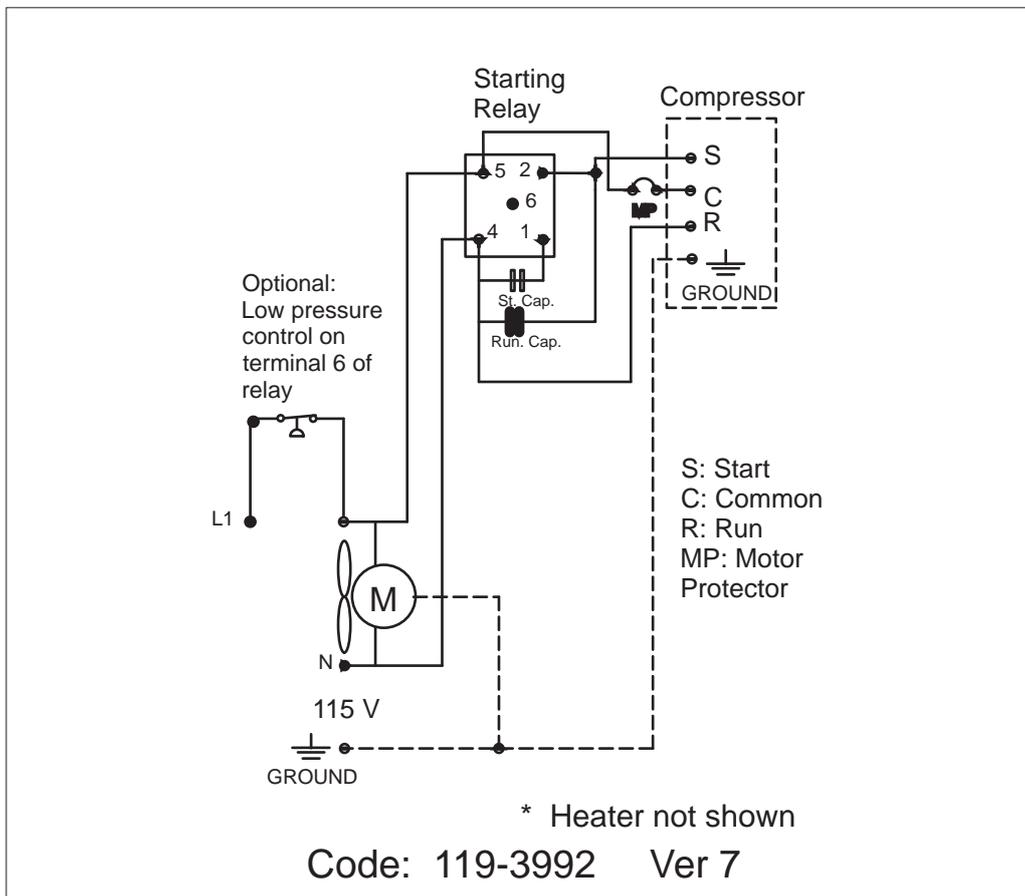
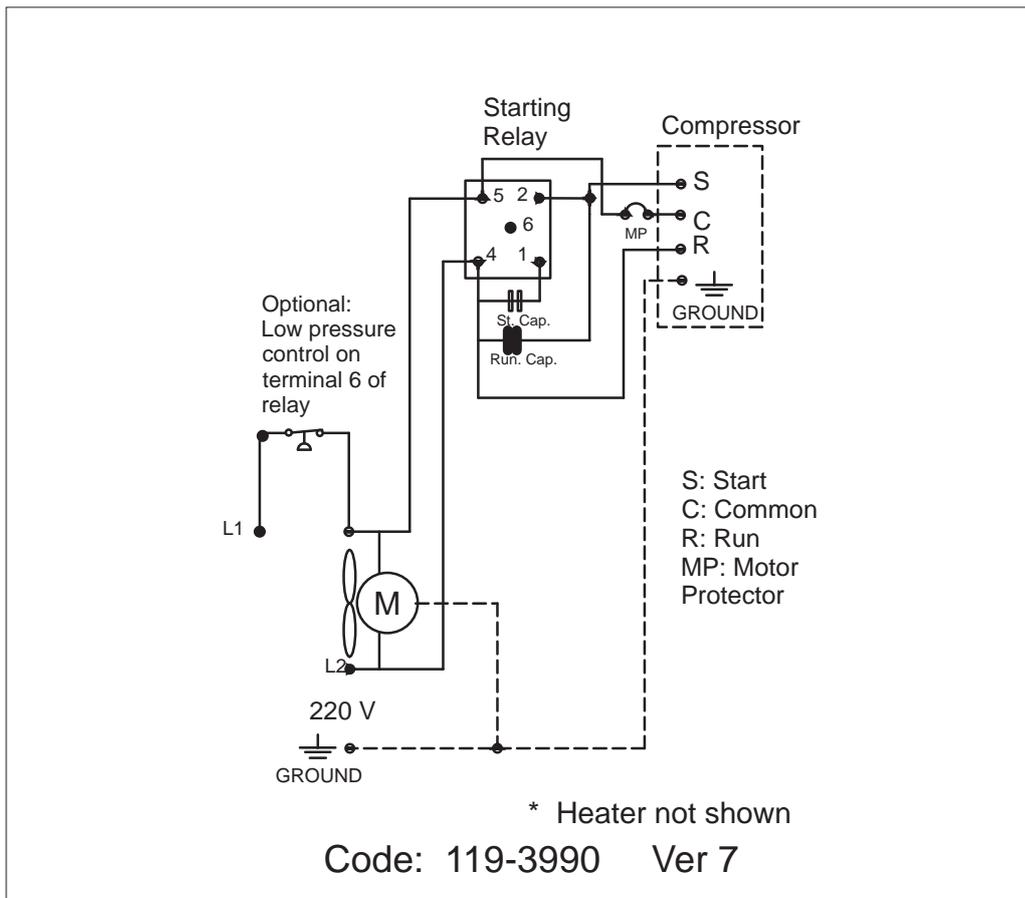
Models: HRU models in voltage Q





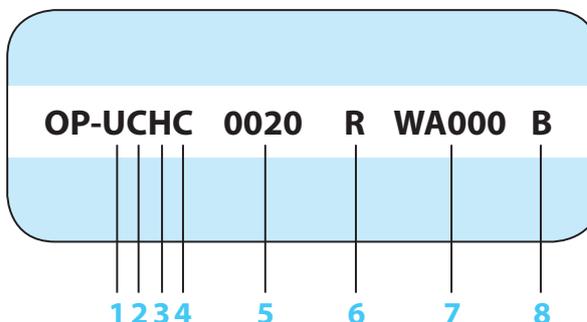






Designation system for the Optyma™ fractional units

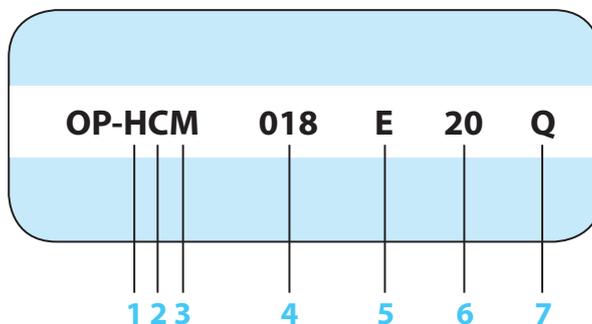
(additional programme frequency etc.: please contact your local wholesaler)



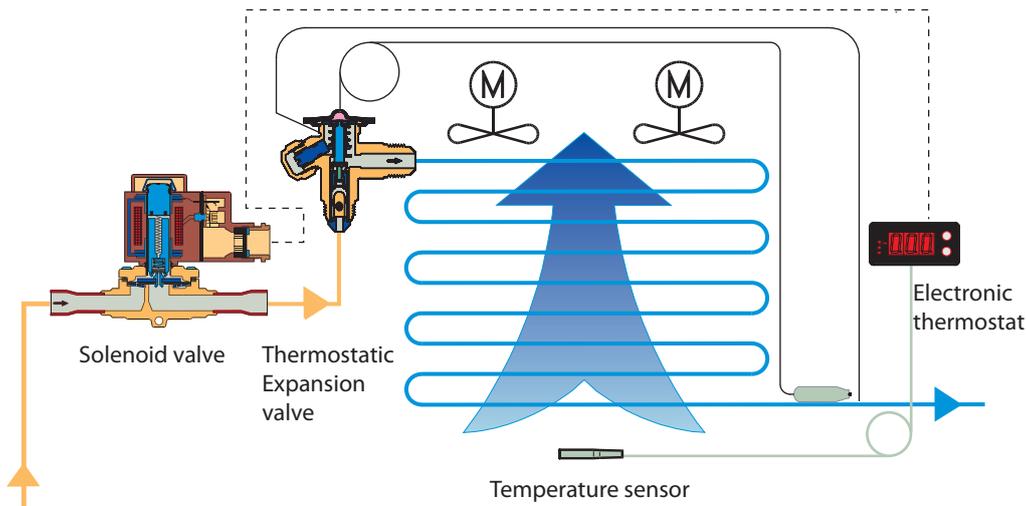
| | |
|----------------------------|---|
| 1 Application | H = High medium temperature L = Low U = Universal Low / Medium / High |
| 2 Design | C : Air cooled condensing unit with 1 fan and hermetic reciprocating compressor G : Air cooled condensing unit with 2 fan and hermetic reciprocating compressor |
| 3 Refrigerant | M = R22 / mineral oil Z = R134a / R404A / R507 / Polyolester oil U = R22 / R404A / R134a / Polyvinyl ester (PVE) oil |
| 4 Condenser size | A : 32°C Max. ambient B : 38°C Max. ambient C : 43°C Max. ambient D : 48°C Max. ambient |
| 5 HP rating | in hundredths of HP i.e. 0033 = 1/3 HP 1000 = 10 HP |
| 6 Certification | R : UL recognized U : UL listed |
| 7 Version | W : Wholesale model A : Power cord B : Power cord, receiver C : BX, Receiver |
| 8 Voltage code | B : Compressor 115V/1~/60 Hz, fan 115V/1~/60Hz N : Compressor 208-230 V/1~/60 Hz, fan 230 V/1~/60 Hz Q : Compressor 200-230 V/3~/60 Hz, fan 230 V/1~/60 Hz R : Compressor 460V/3~/60 Hz, fan 460V/1~/60 Hz |

Designation system for the Optyma™ integral HP units 60 Hz

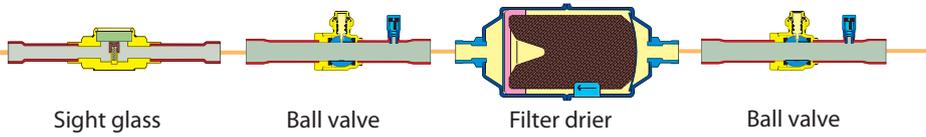
(additional programme frequency etc.: please contact your local wholesaler)



| | |
|-------------------------------|---|
| 1 Application | H = High-Medium temperature L = Low M = Medium |
| 2 Design | C : Air cooled condensing unit with 1 fan and hermetic reciprocating compressor G : Air cooled condensing unit with 2 fan and hermetic reciprocating compressor R : Condensing unit with scroll compressor |
| 3 Refrigerant | M = R22 / mineral oil Z = R134a / R404A / R507 / Polyolester oil U = R22 / R404A / R134a / Polyvinyl ester (PVE) oil |
| 4 Unit size | Unit size (number) |
| 5 Platform & origin | E : Manufactured in Mexico |
| 6 Version | Configuration / equipment |
| 7 Voltage code | B : Compressor 115V/1~/60 Hz, fan 115V/1~/60Hz N : Compressor 208-230 V/1~/60 Hz, fan 230 V/1~/60 Hz Q : Compressor 200-230 V/3~/60 Hz, fan 230 V/1~/60 Hz R : Compressor 460V/3~/60 Hz, fan 460V/1~/60 Hz |



Condensing unit



Sight glass

Ball valve

Filter drier

Ball valve





Danfoss Commercial Compressors is a worldwide manufacturer of compressors and condensing units for refrigeration and HVAC applications. With a wide range of high quality and innovative products we help your company to find the best possible energy efficient solution that respects the environment and reduces total life cycle costs.

We have 40 years of experience within the development of hermeting compressors and today we operate engineering and manufacturing facilities spread across three continents.



Performers Variable Speed scroll compressors



Performers Air Conditioning scroll compressors



Performers Heat Pump scroll compressors



Maneurop Variable Speed reciprocating compressors



Performers Refrigeration scroll compressors



Maneurop Reciprocating Compressors



Optyma Plus Condensing Units



Optyma Condensing Units

Our products can be found in a variety of applications such as rooftops, chillers, residential air conditioners, heatpumps, coldrooms, supermarkets, milk tank cooling and industrial cooling processes.

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