

Reversible heat-pumps **HNR series**, scroll compressors, R410A / R32 / R454B refrigerant, coaxial evaporator/condenser, condenser/evaporator coil with copper tubes and aluminium fins with hydrophilic coating, AC axial fans controlled by cut-phase speed regulator, electronic expansion valve. IP54 protection rating, heat-pump suitable for outdoor installation. Inbuilt water storage tank and single pump P3 as standard.

Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability

 **HEATING**

TECHNICAL DATA

| PERFORMANCES | | Model | 016 | 018 | 022 | 025 | 030 | 038 | 045 | 055 |
|--|--------------------------|-------------------|------------|------------|----------|----------|----------|----------|----------|----------|
| NOMINAL HEATING CAPACITY | W 40°C/45°C @ 7°C (1) | kW | 15,1 | 18,1 | 22,8 | 26,0 | 31,2 | 38,1 | 46,4 | 57,7 |
| TOTAL NOMINAL ABSORBED POWER | | kW | 6,5 | 7,3 | 9,1 | 10,0 | 11,1 | 14,1 | 16,1 | 19,5 |
| COP | | kW/kW | 2,34 | 2,47 | 2,51 | 2,60 | 2,80 | 2,70 | 2,89 | 2,95 |
| SCOP (3) | | - | 2,02 | 2,13 | 2,17 | 2,24 | 2,49 | 2,45 | 2,87 | 2,93 |
| NOMINAL WATER FLOW | | m ³ /h | 2,6 | 3,1 | 3,9 | 4,5 | 5,4 | 6,6 | 8,0 | 9,9 |
| MECHANICAL MODE PRESSURE DROPS (4) | | kPa | 16 | 22 | 17 | 33 | 24 | 34 | 39 | 51 |
| FRIGORIFIC SECTION | | | | | | | | | | |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP | | nr. | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 |
| HYDRAULIC SECTION | | | | | | | | | | |
| WATER FLOW RANGE (6) | | m ³ /h | 1,2÷2,9 | 2,5÷5 | 3÷6 | 3÷6 | 4÷6 | 5÷12 | 6÷12 | 6÷12 |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP) | P3 (2) | kW | 0,98 | 0,98 | 1,28 | 1,28 | 1,28 | 2,20 | 2,20 | 2,20 |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP) | | A | 1,78 | 1,78 | 2,37 | 2,37 | 2,37 | 4,24 | 4,24 | 4,24 |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH) | P5 (2) | kW | 1,10 | 1,47 | 1,47 | 1,47 | 1,47 | 2,94 | 2,94 | 2,94 |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH) | | A | 2,17 | 2,86 | 2,86 | 2,86 | 2,32 | 5,83 | 5,83 | 5,83 |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED) | | BSP / DN | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| TANK VOLUME (5) | | dm ³ | 50 | 110 | 110 | 110 | 270 | 270 | 270 | 270 |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) | | liters | 5 | 8 | 8 | 8 | 12 | 12 | 12 | 12 |
| FAN SECTION (AXIAL) | | | | | | | | | | |
| FANS | | nr. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| MAXIMUM FANS ABSORBED POWER | AC | kW | 0,49 | 0,68 | 0,81 | 0,81 | 1,44 | 1,62 | 1,44 | 1,62 |
| MAXIMUM FANS ABSORBED CURRENT | | A | 2,36 | 3,00 | 1,54 | 1,54 | 2,82 | 3,08 | 2,82 | 3,08 |
| TOTAL AIR FLOW | | m ³ /h | 4669 | 6453 | 7500 | 7500 | 15298 | 16200 | 14267 | 15000 |
| TOTAL ELECTRIC DATA | | | | | | | | | | |
| ELECTRICAL FEED | | V/ph/Hz | 400/3/50/N | 400/3/50/N | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6) | | A | 14,2 | 16,8 | 18,3 | 20,5 | 24,4 | 31,8 | 37,1 | 45,5 |
| MAXIMUM PEAK CURRENT (L.R.A) (6) | | A | 68,1 | 79,8 | 98,9 | 114,9 | 123,2 | 147,3 | 181,1 | 248,1 |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) | | A | NA | NA | NA | NA | NA | NA | NA | NA |
| NOISE DATA | | | | | | | | | | |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7) | | dB(A) | 48,0 | 49,5 | 49,9 | 50,9 | 53,5 | 53,2 | 54,3 | 56,6 |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7) | | dB(A) | NA | NA | NA | NA | 53,0 | 52,2 | 53,3 | 53,9 |
| DIMENSIONS AND WEIGHT | | | | | | | | | | |
| LENGTH | | mm | 820 | 1010 | 1010 | 1010 | 1610 | 1610 | 1610 | 1610 |
| WIDTH | | mm | 615 | 720 | 720 | 720 | 860 | 860 | 860 | 860 |
| HEIGHT | | mm | 1360 | 1580 | 1420 | 1585 | 1380 | 1380 | 1380 | 1380 |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) | | kg | 190 | 230 | 247 | 250 | 374 | 384 | 397 | 417 |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) | | kg | 240 | 360 | 376 | 379 | 673 | 683 | 696 | 716 |

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

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Special features of HNR series:

CX = HITEMA coaxial evaporator, convoluted tube in tube exchanger (outer tube in carbon steel or stainless steel, inner tubes in copper) installed inside the water storage tank, guarantee high operation reliability

 **HEATING**

TECHNICAL DATA

| PERFORMANCES | | Model | 061 | 070 | 075 | 090 | 100 |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|
| NOMINAL HEATING CAPACITY | W 40°C/45°C @ 7°C (1) | kW | 60,5 | 69,0 | 77,4 | 91,3 | 104,2 |
| TOTAL NOMINAL ABSORBED POWER | | kW | 21,9 | 24,9 | 27,0 | 30,7 | 34,2 |
| COP | | kW/kW | 2,76 | 2,77 | 2,87 | 2,97 | 3,04 |
| SCOP (3) | | - | 2,83 | 2,84 | 2,80 | 2,90 | 3,14 |
| NOMINAL WATER FLOW | | m ³ /h | 10,4 | 11,8 | 13,3 | 15,7 | 17,9 |
| MECHANICAL MODE PRESSURE DROPS (4) | | kPa | 23 | 20 | 20 | 28 | 39 |
| FRIGORIFIC SECTION | | | | | | | |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP | | nr. | 2/1/2 | 2/1/2 | 2/1/2 | 2/1/2 | 2/1/2 |
| HYDRAULIC SECTION | | | | | | | |
| WATER FLOW RANGE (6) | | m ³ /h | 8÷18 | 9,5÷20 | 10÷20 | 10÷20 | 10÷20 |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP) | P3 (2) | kW | 2,53 | 2,53 | 2,53 | 2,53 | 2,53 |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP) | | A | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH) | P5 (2) | kW | 6,12 | 6,12 | 6,12 | 6,12 | 6,12 |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH) | | A | 10,40 | 10,40 | 10,40 | 10,40 | 10,40 |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED) | | BSP / DN | 2" | 2" | 2" | 2" | 2" |
| TANK VOLUME (5) | | dm ³ | 410 | 410 | 410 | 410 | 410 |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) | | liters | 19 | 19 | 19 | 19 | 19 |
| FAN SECTION (AXIAL) | | | | | | | |
| FANS | | nr. | 2 | 2 | 2 | 2 | 2 |
| MAXIMUM FANS ABSORBED POWER | AC | kW | 2,50 | 3,88 | 3,88 | 3,88 | 3,88 |
| MAXIMUM FANS ABSORBED CURRENT | | A | 4,96 | 7,80 | 7,80 | 7,80 | 7,80 |
| TOTAL AIR FLOW | | m ³ /h | 24541 | 36858 | 36858 | 34534 | 32211 |
| TOTAL ELECTRIC DATA | | | | | | | |
| ELECTRICAL FEED | | V/ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6) | | A | 48,0 | 56,1 | 61,4 | 72,4 | 80,6 |
| MAXIMUM PEAK CURRENT (L.R.A) (6) | | A | 146,7 | 171,6 | 176,9 | 216,4 | 283,2 |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) | | A | 123,1 | 143,6 | 148,9 | 181,6 | 235,0 |
| NOISE DATA | | | | | | | |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7) | | dB(A) | 57,0 | 55,3 | 55,6 | 56,4 | 58,3 |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7) | | dB(A) | 56,5 | 54,3 | 54,4 | 55,2 | 56,1 |
| DIMENSIONS AND WEIGHT | | | | | | | |
| LENGTH | | mm | 2220 | 2220 | 2220 | 2220 | 2220 |
| WIDTH | | mm | 1100 | 1100 | 1100 | 1100 | 1100 |
| HEIGHT | | mm | 1900 | 1900 | 1900 | 1900 | 1900 |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) | | kg | 780 | 787 | 797 | 806 | 864 |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) | | kg | 1198 | 1205 | 1215 | 1224 | 1281 |

The manufacturer reserves the right to modify specifications without notice.

Last update: 16/07/2020
Revision: 00-2020

Data referred to:

- (1) Data referred to inlet/outlet water temperature = +40/+45 °C, ambient temperature = +7°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SCOP data comply with the EN14825:2013, referring to medium temperature climate zone
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

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Special features of HNR series:

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TECHNICAL DATA

| PERFORMANCES | | Model | 016 | 018 | 022 | 025 | 030 | 038 | 045 | 055 |
|--|-------------------------|-------------------|------------|------------|----------|----------|----------|----------|----------|----------|
| NOMINAL COOLING CAPACITY | W 12 C/°C @ 35°C (1) | kW | 13,7 | 16,2 | 20,6 | 23,3 | 28,2 | 34,2 | 42,7 | 53,0 |
| TOTAL NOMINAL ABSORBED POWER | | kW | 6,3 | 7,2 | 8,9 | 9,9 | 10,6 | 14,5 | 15,5 | 19,6 |
| EER | | kW/kW | 2,18 | 2,24 | 2,32 | 2,35 | 2,65 | 2,36 | 2,76 | 2,71 |
| SEPR (HT) (3) | | - | 4,17 | 3,78 | 3,86 | 3,98 | 4,30 | 3,84 | 4,48 | 4,47 |
| NOMINAL WATER FLOW (5) | | m ³ /h | 2,7 | 3,2 | 4,0 | 4,6 | 5,5 | 6,7 | 8,2 | 10,2 |
| MECHANICAL MODE PRESSURE DROPS (4) | | kPa | 16 | 22 | 17 | 33 | 24 | 34 | 39 | 51 |
| FRIGORIFIC SECTION | | | | | | | | | | |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP | | nr. | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 | 1/1/1 |
| HYDRAULIC SECTION | | | | | | | | | | |
| WATER FLOW RANGE (6) | | m ³ /h | 1,2÷2,9 | 2,5÷5 | 3÷6 | 3÷6 | 4÷6 | 5÷12 | 6÷12 | 6÷12 |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP) | P3 (2) | kW | 0,98 | 0,98 | 1,28 | 1,28 | 1,28 | 2,20 | 2,20 | 2,20 |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP) | | A | 1,78 | 1,78 | 2,37 | 2,37 | 2,37 | 4,24 | 4,24 | 4,24 |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH) | P5 (2) | kW | 1,10 | 1,47 | 1,47 | 1,47 | 1,47 | 2,94 | 2,94 | 2,94 |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH) | | A | 2,17 | 2,86 | 2,86 | 2,86 | 2,32 | 5,83 | 5,83 | 5,83 |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED) | | BSP / DN | 1" | 1" | 1" | 1" | 1 1/2" | 1 1/2" | 1 1/2" | 1 1/2" |
| TANK VOLUME (5) | | dm ³ | 50 | 110 | 110 | 110 | 270 | 270 | 270 | 270 |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) | | liters | 5 | 8 | 8 | 8 | 12 | 12 | 12 | 12 |
| FAN SECTION (AXIAL) | | | | | | | | | | |
| FANS | | nr. | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 |
| MAXIMUM FANS ABSORBED POWER | AC | kW | 0,49 | 0,68 | 0,81 | 0,81 | 1,44 | 1,62 | 1,44 | 1,62 |
| MAXIMUM FANS ABSORBED CURRENT | | A | 2,36 | 3,00 | 1,54 | 1,54 | 2,82 | 3,08 | 2,82 | 3,08 |
| TOTAL AIR FLOW | | m ³ /h | 4669 | 6453 | 7500 | 7500 | 15298 | 16200 | 14267 | 15000 |
| TOTAL ELECTRIC DATA | | | | | | | | | | |
| ELECTRICAL FEED | | V/ph/Hz | 400/3/50/N | 400/3/50/N | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6) | | A | 14,2 | 16,8 | 18,3 | 20,5 | 24,4 | 31,8 | 37,1 | 45,5 |
| MAXIMUM PEAK CURRENT (L.R.A) (6) | | A | 68,1 | 79,8 | 98,9 | 114,9 | 123,2 | 147,3 | 181,1 | 248,1 |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) | | A | NA | NA | NA | NA | NA | NA | NA | NA |
| NOISE DATA | | | | | | | | | | |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7) | | dB(A) | 48,0 | 49,5 | 49,9 | 50,9 | 53,5 | 53,2 | 54,3 | 56,6 |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7) | | dB(A) | NA | NA | NA | NA | 53,0 | 52,2 | 53,3 | 53,9 |
| DIMENSIONS AND WEIGHT | | | | | | | | | | |
| LENGTH | | mm | 820 | 1010 | 1010 | 1010 | 1610 | 1610 | 1610 | 1610 |
| WIDTH | | mm | 615 | 720 | 720 | 720 | 860 | 860 | 860 | 860 |
| HEIGHT | | mm | 1360 | 1580 | 1420 | 1585 | 1380 | 1380 | 1380 | 1380 |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) | | kg | 190 | 230 | 247 | 250 | 374 | 384 | 397 | 417 |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) | | kg | 240 | 360 | 376 | 379 | 673 | 683 | 696 | 716 |

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Data referred to:

- (1) Data referred to inlet/outlet water temperature = +12/+7 °C, ambient temperature = +35°C, fluid = Water
- (2) Available pressure can be calculated from Hitema Online Selection Software
- (3) SEPR: data comply with the European Regulation (EU) 2016/2281, referring to high temperature process chillers
- (4) Pressure drops taken in account: evaporator, valves, piping
- (5) Water flow is different from heating mode, assuming that an inverter pump will be used
- (6) Data referred to standard chiller configuration WP (single pump P3) and AC fans
- (7) Sound pressure level referred to measures according to normative ISO3744, pressure level at distance of 10 m, referred to free field on reflecting surface

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Special features of HNR series:

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TECHNICAL DATA

| PERFORMANCES | | Model | 061 | 070 | 075 | 090 | 100 |
|--|--------------------------|-------------------|----------|----------|----------|----------|----------|
| NOMINAL COOLING CAPACITY | W 12°C/7°C @ 35°C (1) | kW | 55,4 | 63,0 | 69,9 | 83,3 | 95,6 |
| TOTAL NOMINAL ABSORBED POWER | | kW | 21,3 | 24,4 | 27,0 | 30,4 | 33,7 |
| EER | | kW/kW | 2,60 | 2,58 | 2,59 | 2,74 | 2,83 |
| SEPR (HT) (3) | | - | 4,03 | 3,89 | 4,49 | 4,44 | 4,68 |
| NOMINAL WATER FLOW (5) | | m ³ /h | 10,7 | 12,2 | 13,7 | 16,1 | 18,4 |
| MECHANICAL MODE PRESSURE DROPS (4) | | kPa | 23 | 20 | 20 | 28 | 39 |
| FRIGORIFIC SECTION | | | | | | | |
| COMPRESSORS / REFRIGERATING CIRCUITS / PARTITION STEP | | nr. | 2/1/2 | 2/1/2 | 2/1/2 | 2/1/2 | 2/1/2 |
| HYDRAULIC SECTION | | | | | | | |
| WATER FLOW RANGE (6) | | m ³ /h | 8÷18 | 9,5÷20 | 10÷20 | 10÷20 | 10÷20 |
| MAXIMUM PUMP ABSORBED POWER (WP OR OPTION DP) | P3 (2) | kW | 2,53 | 2,53 | 2,53 | 2,53 | 2,53 |
| MAXIMUM PUMP ABSORBED CURRENT (WP OR OPTION DP) | | A | 4,56 | 4,56 | 4,56 | 4,56 | 4,56 |
| MAXIMUM PUMP ABSORBED POWER (OPTION PH OR DPH) | P5 (2) | kW | 6,12 | 6,12 | 6,12 | 6,12 | 6,12 |
| MAXIMUM PUMP ABSORBED CURRENT (OPTION PH OR DPH) | | A | 10,40 | 10,40 | 10,40 | 10,40 | 10,40 |
| HYDRAULIC CONNECTIONS (THREADED / FLANGED) | | BSP / DN | 2" | 2" | 2" | 2" | 2" |
| TANK VOLUME (5) | | dm ³ | 410 | 410 | 410 | 410 | 410 |
| EXPANSION VESSEL NUMBER x VOLUME (OPTION XV) | | liters | 19 | 19 | 19 | 19 | 19 |
| FAN SECTION (AXIAL) | | | | | | | |
| FANS | | nr. | 2 | 2 | 2 | 2 | 2 |
| MAXIMUM FANS ABSORBED POWER | AC | kW | 2,50 | 3,88 | 3,88 | 3,88 | 3,88 |
| MAXIMUM FANS ABSORBED CURRENT | | A | 4,96 | 7,80 | 7,80 | 7,80 | 7,80 |
| TOTAL AIR FLOW | | m ³ /h | 24541 | 36858 | 36858 | 34534 | 32211 |
| TOTAL ELECTRIC DATA | | | | | | | |
| ELECTRICAL FEED | | V/ph/Hz | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| MAXIMUM ABSORBED CURRENT (F.L.A) (6) | | A | 48,0 | 56,1 | 61,4 | 72,4 | 80,6 |
| MAXIMUM PEAK CURRENT (L.R.A) (6) | | A | 146,7 | 171,6 | 176,9 | 216,4 | 283,2 |
| MAXIMUM PEAK CURRENT WITH SOFT START (OPTION SF) (L.R.A) (6) | | A | 123,1 | 143,6 | 148,9 | 181,6 | 235,0 |
| NOISE DATA | | | | | | | |
| SOUND PRESSURE FOR STANDARD CONFIGURATION (6) (7) | | dB(A) | 57,0 | 55,3 | 55,6 | 56,4 | 58,3 |
| SOUND PRESSURE FOR LOW NOISE OPTION (LNJ) (6) (7) | | dB(A) | 56,5 | 54,3 | 54,4 | 55,2 | 56,1 |
| DIMENSIONS AND WEIGHT | | | | | | | |
| LENGTH | | mm | 2220 | 2220 | 2220 | 2220 | 2220 |
| WIDTH | | mm | 1100 | 1100 | 1100 | 1100 | 1100 |
| HEIGHT | | mm | 1900 | 1900 | 1900 | 1900 | 1900 |
| WEIGHT EMPTY FOR STANDARD CONFIGURATION (6) | | kg | 780 | 787 | 797 | 806 | 864 |
| WEIGHT OPERATIVE FOR STANDARD CONFIGURATION (6) | | kg | 1198 | 1205 | 1215 | 1224 | 1281 |

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