

## HXD30MA DELTA LBP/MBP Compressor Superior Efficiency R600a 220-240V 50Hz

### General

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| Code number (pre-assembled RSIR start equipment) | CDO00081                  |
| Approvals                                        | EN 60335-2-34 w. Annex AA |
| Compressors on pallet                            | 168                       |

### Application

| Application                                    |    | LBP/MBP    |    |
|------------------------------------------------|----|------------|----|
| Frequency                                      | Hz | 50         | 60 |
| Evaporating temperature                        | °C | -35 to 10  | —  |
| Voltage range                                  | V  | 187 to 254 | —  |
| Max. condensing temperature continuous (short) | °C | 65 (75)    | —  |
| Max. winding temperature continuous (short)    | °C | 120 (130)  | —  |

### Cooling requirements

| Frequency               | Hz | 50  |     |     | 60  |     |     |
|-------------------------|----|-----|-----|-----|-----|-----|-----|
| Application             |    | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C                    |    | S   | S   | —   | —   | —   | —   |
| 38°C                    |    | S   | S   | —   | —   | —   | —   |
| 43°C                    |    | S   | S   | —   | —   | —   | —   |
| Remarks on application: |    |     |     |     |     |     |     |

### Motor

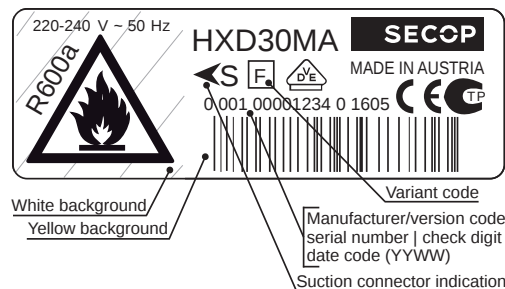
| Motor type                                |   | RSCR/RSIR |      |
|-------------------------------------------|---|-----------|------|
| LRA (rated after 4 sec. UL984), HST   LST | A | —         | 1.2  |
| Cut in Current, HST   LST                 | A | —         | 4.5  |
| Resistance, main   start winding (25°C)   | Ω | 66.1      | 43.0 |

### Design

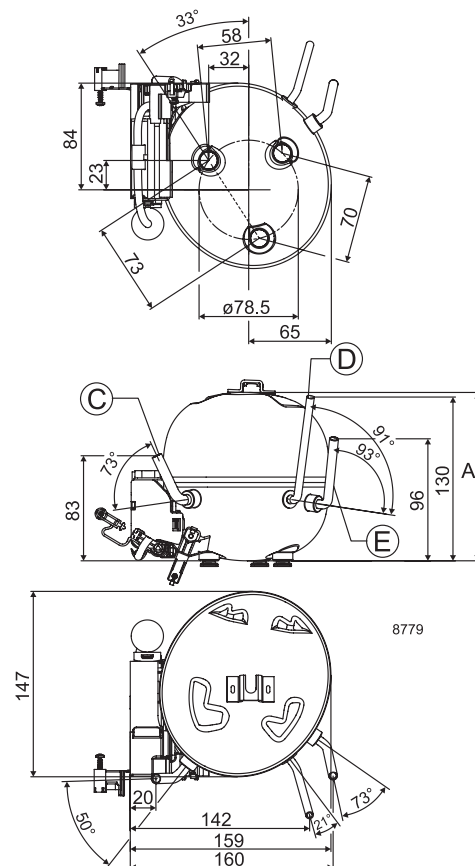
|                                     |                 |              |
|-------------------------------------|-----------------|--------------|
| Displacement                        | cm <sup>3</sup> | 3.00         |
| Oil quantity (type)                 | cm <sup>3</sup> | 84 (mineral) |
| Maximum refrigerant charge          | g               | 150          |
| Free gas volume in compressor       | cm <sup>3</sup> | 837          |
| Weight without electrical equipment | kg              | 3.6          |

### Dimensions

|                      |                          |   |                               |
|----------------------|--------------------------|---|-------------------------------|
| Height               | mm                       | A | 133                           |
|                      |                          | B | —                             |
| Suction connector    | location/I.D. mm   angle | C | 6.2   73°                     |
|                      | material   comment       |   | Copper   Rubber plug          |
| Process connector    | location/O.D. mm   angle | D | 6.0   91°                     |
|                      | material   comment       |   | Copper   Rubber plug          |
| Discharge connector  | location/I.D. mm   angle | E | 5.0   93°                     |
|                      | material   comment       |   | Cu-plated steel   Rubber plug |
| Oil cooler connector | location/I.D. mm   angle | F | —                             |
|                      | material   comment       |   | —                             |
| Connector tolerance  | I.D. mm                  |   | ±0.1                          |
| Remarks:             |                          |   |                               |



- S = Static cooling normally sufficient
- O = Oil cooling
- F<sub>1</sub> = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F<sub>2</sub> = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



**EN 12900 MBP**

220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

| Evap. temp. in °C  | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5   | 0    | 5    | 7.2  | 10   | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|------|------|------|------|----|----|
| Capacity in W      |     |     | 18.3 | 28.9 | 40.7 | 45.1  | 54.3 | 70.3 | 89.1 | 103  | 111  | 138  | 168  | 183  | 204  |    |    |
| Power cons. in W   |     |     | 22.2 | 26.4 | 30.2 | 31.4  | 33.7 | 37.0 | 40.2 | 42.1 | 43.1 | 45.9 | 48.6 | 49.8 | 51.3 |    |    |
| Current cons. in A |     |     | 0.10 | 0.12 | 0.14 | 0.14  | 0.16 | 0.17 | 0.18 | 0.19 | 0.20 | 0.21 | 0.22 | 0.23 | 0.23 |    |    |
| COP in W/W         |     |     | 0.82 | 1.09 | 1.35 | 1.43  | 1.61 | 1.90 | 2.22 | 2.45 | 2.58 | 3.00 | 3.46 | 3.68 | 3.98 |    |    |

**ASHRAE LBP**

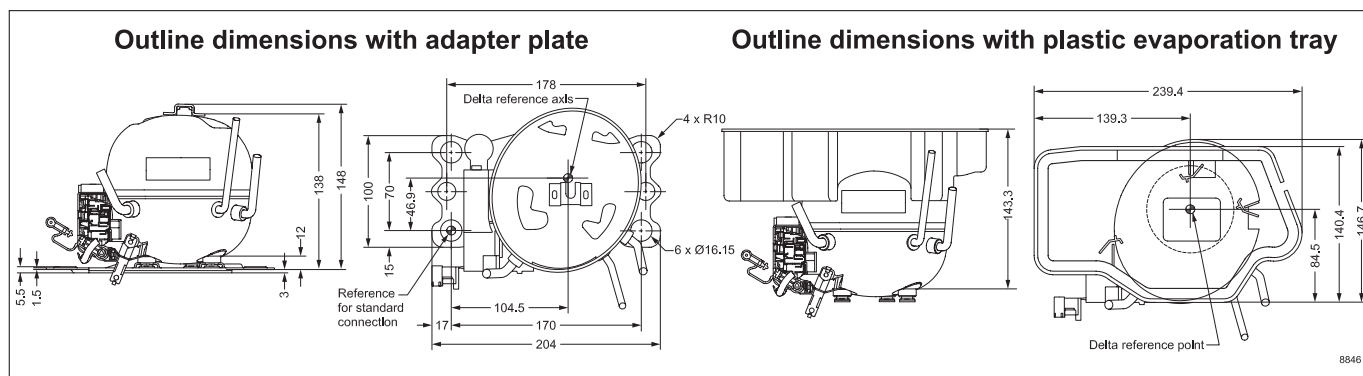
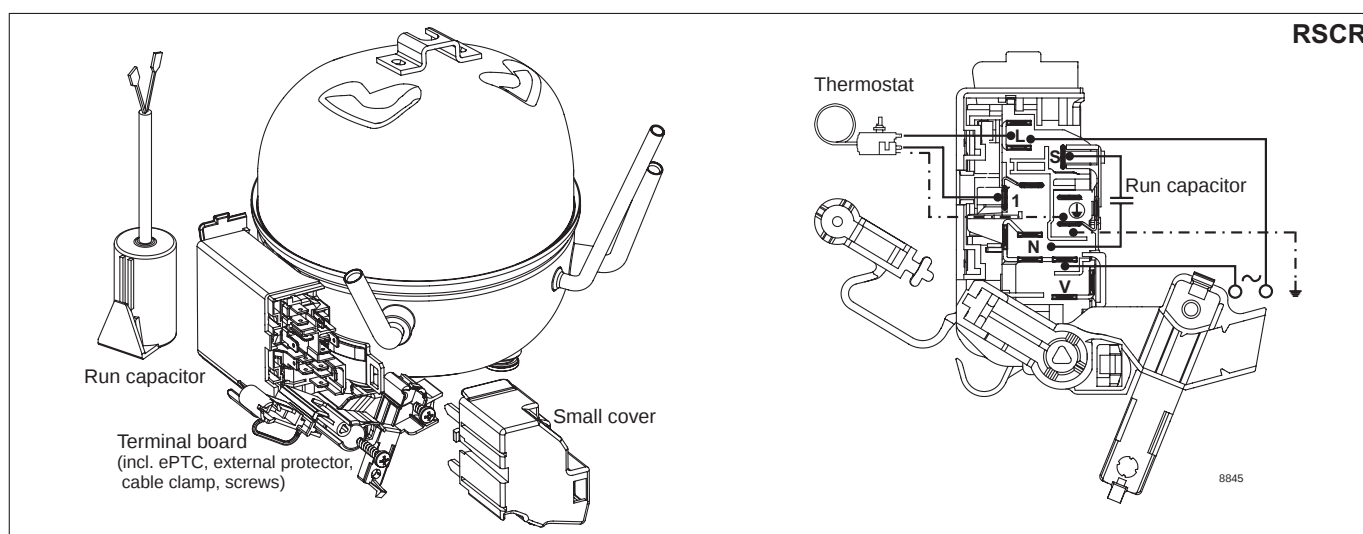
220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

| Evap. temp. in °C  | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5   | 0    | 5    | 7.2  | 10   | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|------|------|------|------|----|----|
| Capacity in W      |     |     | 14.2 | 27.4 | 41.5 | 46.6  | 57   | 74.7 | 95.1 | 110  | 119  | 147  | 180  | 196  | 218  |    |    |
| Power cons. in W   |     |     | 20.5 | 25.0 | 29.3 | 30.6  | 33.3 | 37.1 | 40.8 | 43.2 | 44.4 | 47.9 | 51.3 | 52.8 | 54.7 |    |    |
| Current cons. in A |     |     | 0.10 | 0.12 | 0.14 | 0.15  | 0.16 | 0.18 | 0.20 | 0.21 | 0.21 | 0.23 | 0.25 | 0.25 | 0.26 |    |    |
| COP in W/W         |     |     | 0.69 | 1.10 | 1.42 | 1.52  | 1.71 | 2.01 | 2.33 | 2.56 | 2.68 | 3.07 | 3.50 | 3.71 | 3.98 |    |    |

**ASHRAE MBP**

220V, 50Hz, RC 2.0µF, ePTC consumption incl., static cooling

| Evap. temp. in °C  | -45 | -40 | -35  | -30  | -25  | -23.3 | -20  | -15  | -10  | -6.7 | -5   | 0    | 5    | 7.2  | 10   | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|------|------|------|------|------|----|----|
| Capacity in W      |     |     | 12.7 | 24.7 | 37.3 | 41.9  | 51.3 | 67.1 | 85.4 | 99.2 | 107  | 132  | 161  | 176  | 196  |    |    |
| Power cons. in W   |     |     | 20.3 | 24.8 | 29.0 | 30.4  | 33.0 | 36.8 | 40.4 | 42.7 | 43.9 | 47.4 | 50.8 | 52.3 | 54.2 |    |    |
| Current cons. in A |     |     | 0.10 | 0.12 | 0.14 | 0.15  | 0.16 | 0.18 | 0.20 | 0.21 | 0.21 | 0.23 | 0.25 | 0.25 | 0.26 |    |    |
| COP in W/W         |     |     | 0.63 | 1.00 | 1.29 | 1.38  | 1.56 | 1.83 | 2.11 | 2.32 | 2.43 | 2.78 | 3.18 | 3.36 | 3.61 |    |    |



| Accessories for                                | HXD30MA                 | Code number | Test conditions         | EN 12900 MBP  | ASHRAE LBP | ASHRAE MBP |
|------------------------------------------------|-------------------------|-------------|-------------------------|---------------|------------|------------|
| Run capacitor (optional)                       | 4.8 mm spade connectors | 2.0 µF      | Condensing temperature  | 45°C          | 54.4°C     | 54.4°C     |
| Small cover (compulsory, delivered separately) |                         | 160943_     | Ambient temperature     | 32°C          | 32.2°C     | 35°C       |
| Adapter plate                                  |                         | 157008_     | Suction gas temperature | 20°C          | 32.2°C     | 35°C       |
| Evaporator tray                                |                         | 162531_     | Liquid temperature      | no subcooling | 32.2°C     | 46.1°C     |

| Spare parts for                                                      | HXD30MA                 | Code number | Mounting accessories (for adapter plate) | Code number       |
|----------------------------------------------------------------------|-------------------------|-------------|------------------------------------------|-------------------|
| Terminal board (incl. ePTC, external protector, cable clamp, screws) | 4.8 mm spade connectors | BX E6       | Bolt joint for one comp.                 | Ø: 16 mm 118-1917 |
| Motor protector                                                      | AE88AHM                 | E6          | Bolt joint in quantities                 | Ø: 16 mm 118-1918 |
|                                                                      |                         |             | Snap-on in quantities                    | Ø: 16 mm 118-1919 |

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