

Model

| | | | | |
|-------------|-----------------|-------------------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz 1~ | Sales code: | 102H5501 |
|-------------|-----------------|-------------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|-------------------------------|-----------------------|--------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R290 |
| Oil viscosity | 32cSt | Displacement | 4,8cm ³ / 0,29cu.in |
| Oil quantity | 221cm ³ / 7,5fl.oz | Compressors on pallet | 100 |
| Refr. charge - tech. limit | 150g / 5,3oz | | |
| Free gas volume comp. | 1390cm ³ / 47fl.oz | | |
| Weight | 8,15kg / 18lbs | | |
| Motor protection | 1# internal | | |
| Winding resistance main | 17,3Ω (at 25°C) | | |
| Winding resistance aux | 18,76Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 130°C / 266°F | | |



General - Configurations with DLE4.8CN

| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|------------------------|--|----------------|----------------|----------------|
| Motorconfiguration | CSIR | RSIR | RSCR | RSCR |
| Power supply (nominal) | 220-240V/50Hz | 220-240V/50Hz | 220-240V/50Hz | 220-240V/50Hz |
| Number of phases | 1 | 1 | 1 | 1 |
| Voltage range | 198-254V | 198-254V | 198-254V | 198-254V |
| Approvals | VDE, CCC | VDE, CCC | VDE, CCC | VDE, CCC |
| Starting torque | HST | LST | LST | LST |
| Note | Housing with dip-tray fixture (omega bracket). | | | |

Applications with DLE4.8CN

| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|-------------------------|----------------|----------------|----------------|----------------|
| Refrigerant | R290 | R290 | R290 | R290 |
| Application | LBP+MBP | LBP+MBP | LBP+MBP | LBP+MBP |
| System cooling | fan 3m/s | fan 3m/s | fan 3m/s | static |
| Hot gas defrost | OK | OK | OK | OK |
| Long interval pull down | OK | OK | OK | OK |

Electrical data - Configurations with DLE4.8CN

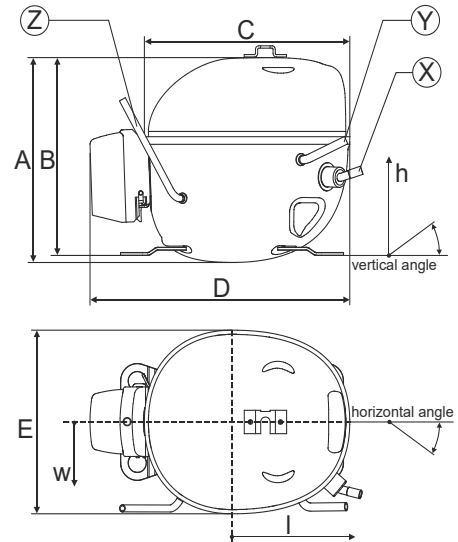
| | Conf. 1 | Conf. 2 | Conf. 3 | Conf. 4 |
|------------------------------|----------------|----------------|----------------|----------------|
| Starting device type | relay | PTC | PTC | PTC |
| Run capacitor | -/- | -/- | 5μF | 5μF |
| Start capacitor | 60μF | -/- | -/- | -/- |
| LRA (locked rotor amps / 4s) | 6,54A | 5,81A | 5,81A | 5,81A |
| RLA (rated load amps / 1s) | 1,25A | 1,25A | 1,05A | 1,05A |
| Cut in current | 6,54A | 9,88A | 9,88A | 9,88A |
| IP class | 21 | 21 | 21 | 21 |

Model

| | | | | |
|-------------|-----------------|------------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz 1~ | Sales code: | 102H5501 |
|-------------|-----------------|------------------|-------------|-----------------|

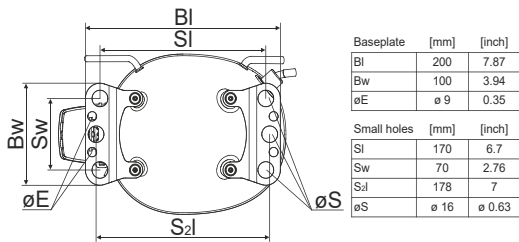
Compressor dimensions

| | | |
|----------------|-------------------|----------------|
| Housing | A Height | 174mm / 6,85in |
| | B Height | 168mm / 6,61in |
| | C Length shell | 183mm / 7,2in |
| | D Length w. cover | 232mm / 9,13in |
| | E Width | 156mm / 6,14in |

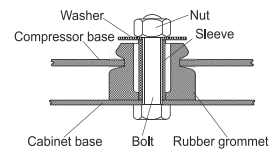


| Connectors | | Suction | Discharge | Process |
|-----------------------|------|--------------|--------------|--------------|
| | | X | Y | Z |
| Diameter | [mm] | øi 8,11-8,29 | øi 6,11-6,29 | øi 6,1-6,3 |
| (i:inside, o:outside) | [in] | øi 0,32-0,33 | øi 0,24-0,25 | øi 0,24-0,25 |
| Material | | copper | copper | copper |
| Horizontal angle | ±2° | 10° | 0° | 0° |
| Vertical angle | ±2° | 18° | 25° | 119° |
| Position l/h/w | [mm] | 135/77/67 | 98/96/72 | -98/133/73 |
| | [in] | 5,3/3/2,6 | 3,8/3,8/2,8 | -3,9/5,2/2,9 |
| Straight tube l. | [mm] | 12 | 12 | 12 |
| | [in] | 0,5 | 0,5 | 0,5 |

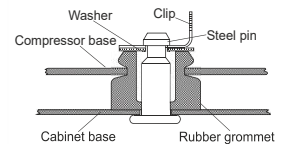
Compressor fixation



Bolt joint



Snap-on



| Mounting accessories | one comp. | multi pack |
|----------------------------|-----------|------------|
| Bolt joint M6 ø16mm | 118-1917 | 118-1918 |
| Bolt joint ø1/4" ø16mm | 118-1946 | |
| Snap-on ø7,3 ø16mm | 118-1947 | 118-1919 |

Application notes

Housing with dip-tray fixture (omega bracket).

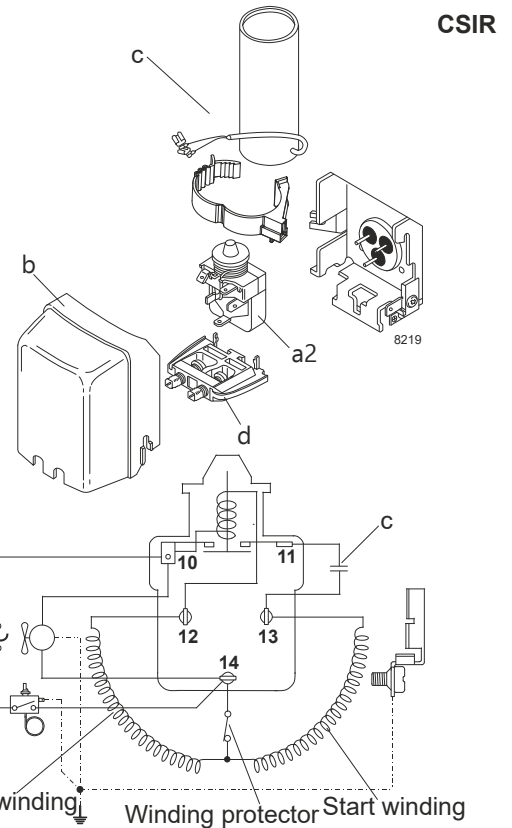
Model

| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 1 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R290 |
| Application | LBP+MBP |
| Voltage range | 198-254V |
| Starting torque | HST |
| Approvals | VDE |
| | CCC |

Electrical accessories / wiring diagram

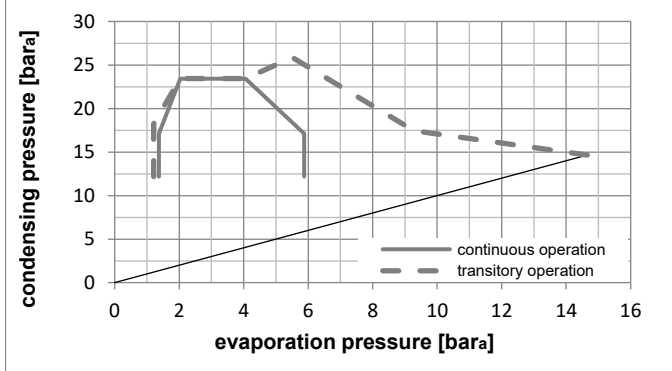
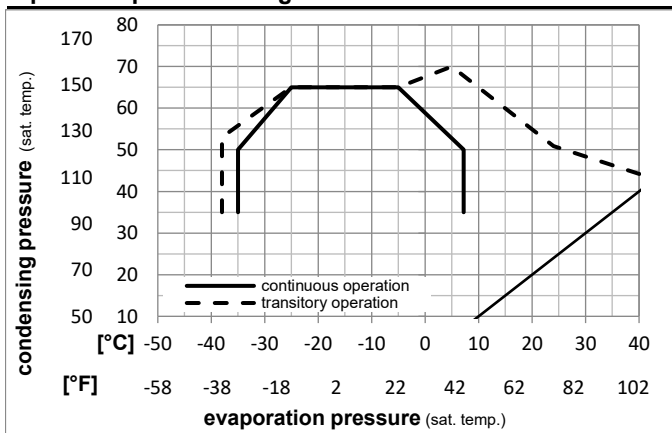


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F |
| Ambient temperature max.: | 43°C / 110°F |

| System cooling (n/a: outside limits) | | | |
|--------------------------------------|----------|----------|-----|
| T ambient | LBP | MBP | HBP |
| 32°C / 90°F | fan 3m/s | fan 3m/s | n/a |
| 38°C / 100°F | fan 3m/s | fan 3m/s | n/a |
| 43°C / 110°F | fan 3m/s | fan 3m/s | n/a |

Operation pressure range



Components

| | | |
|----|------------------------|----------|
| a2 | current relay | 117U7001 |
| c | start capacitor (60μF) | 117U5014 |
| b | plastic cover | 103N0491 |
| d | cord relief | 103N1010 |

Model

| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 1 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Optimization + standard conditions

220V/50Hz, CSIR, fan 3m/s, VDE, CCC

| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | | Power consumption | | | |
|-------|------|---|------|--------------|------|--|---------|----------|-------|----------|-----------|-------------------|---------------------|--------|----------------|
| | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | | COP | EER | P1 | Current consumption | | Ref. mass flow |
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | I | m | |
| [°C] | [°F] | [°C] | [°F] | [°C] | [°F] | | | | | | | | [A] | [kg/h] | |
| -23,3 | -10 | 54,4 | 130 | 32,2 | 90 | 242,1 | 827 | 208,3 | 1,56 | 5,32 | 1,34 | 155,3 | 1,01 | 2,45 | ASHRAE LBP |
| -25 | -13 | 55 | 131 | 32 | 89,6 | 182,3 | 623 | 156,9 | 1,21 | 4,14 | 1,04 | 150,2 | 0,99 | 2,27 | cecomaf LBP |
| -35 | -31 | 40 | 104 | 20 | 68 | 114,0 | 389 | 98,1 | 0,99 | 3,37 | 0,85 | 115,6 | 0,86 | 1,30 | EN12900 LBP |
| -6,66 | 20 | 54,4 | 130 | 35 | 95 | 415,7 | 1420 | 357,8 | 1,98 | 6,75 | 1,70 | 210,4 | 1,20 | 4,74 | ASHRAE MBP |
| -10 | 14 | 55 | 131 | 32 | 89,6 | 330,8 | 1130 | 284,6 | 1,65 | 5,62 | 1,42 | 200,9 | 1,17 | 4,18 | cecomaf MBP |
| -10 | 14 | 45 | 113 | 20 | 68 | 362,5 | 1238 | 312,0 | 2,00 | 6,81 | 1,72 | 181,7 | 1,09 | 4,45 | EN12900 MBP |

Performance tables

220V/50Hz, CSIR, fan 3m/s, VDE, CCC

| [°C / °F] | pe | Cooling capacity | | | COP | EER | P1 | I | m | | |
|------------------|------|------------------|-------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| -35 | -31 | 107,0 | 365 | 92,1 | 0,91 | 3,10 | 0,78 | 117,9 | 0,87 | 1,20 | |
| cond. pressure | -25 | -13 | 200,9 | 686 | 172,9 | 1,40 | 4,80 | 1,21 | 143,0 | 0,96 | 2,27 |
| pc= 45/113 | -15 | 5 | 310,5 | 1061 | 267,3 | 1,83 | 6,26 | 1,58 | 169,4 | 1,05 | 3,53 |
| return gas temp. | -10 | 14 | 377,4 | 1289 | 324,8 | 2,08 | 7,09 | 1,79 | 181,7 | 1,09 | 4,32 |
| RGT= 32/90 | -5 | 23 | 455,5 | 1556 | 392,0 | 2,36 | 8,07 | 2,03 | 192,8 | 1,13 | 5,24 |
| liquid temp | 0 | 32 | 547,4 | 1869 | 471,1 | 2,71 | 9,25 | 2,33 | 202,2 | 1,17 | 6,35 |
| Tliq= 45/113 | 7,2 | 45 | 708,6 | 2420 | 609,8 | 3,35 | 11,44 | 2,88 | 211,6 | 1,21 | 8,33 |
| -35 | -31 | 103,9 | 355 | 89,5 | 0,87 | 2,99 | 0,75 | 118,9 | 0,89 | 1,29 | |
| cond. pressure | -25 | -13 | 182,3 | 623 | 156,9 | 1,21 | 4,14 | 1,04 | 150,2 | 0,99 | 2,27 |
| pc= 55/131 | -15 | 5 | 273,9 | 935 | 235,7 | 1,49 | 5,08 | 1,28 | 184,2 | 1,11 | 3,44 |
| return gas temp | -10 | 14 | 330,8 | 1130 | 284,6 | 1,65 | 5,62 | 1,42 | 200,9 | 1,17 | 4,18 |
| RGT= 32/90 | -5 | 23 | 398,2 | 1360 | 342,7 | 1,84 | 6,27 | 1,58 | 216,9 | 1,23 | 5,07 |
| liquid temp | 0 | 32 | 478,8 | 1635 | 412,1 | 2,07 | 7,07 | 1,78 | 231,4 | 1,29 | 6,15 |
| Tliq= 55/131 | 7,2 | 45 | 622,7 | 2127 | 535,9 | 2,50 | 8,54 | 2,15 | 249,0 | 1,37 | 8,11 |

Model

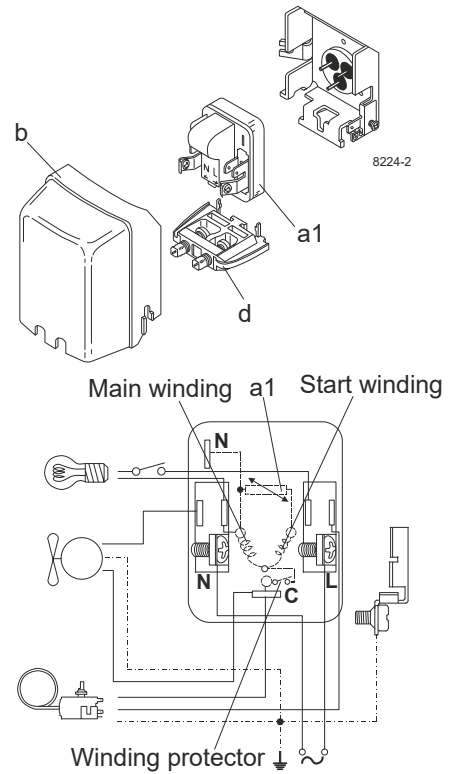
| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 2 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | RSIR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R290 |
| Application | LBP+MBP |
| Voltage range | 198-254V |
| Starting torque | LST |
| Approvals | VDE |
| | CCC |

Electrical accessories / wiring diagram

RSIR

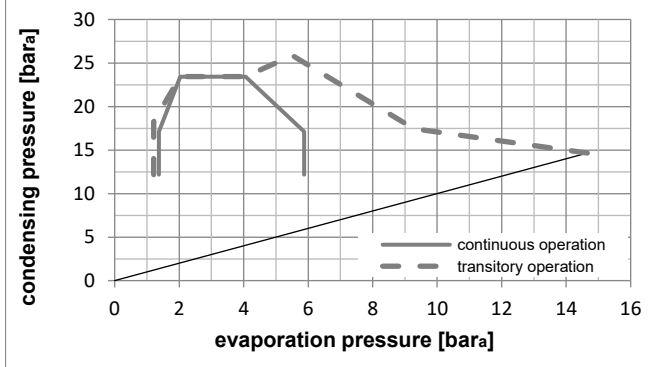
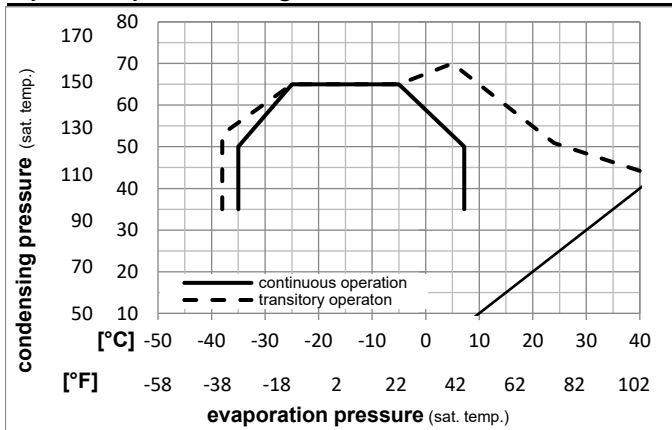


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F |
| Ambient temperature max.: | 43°C / 110°F |

| System cooling (n/a: outside limits) | | | |
|--------------------------------------|----------|----------|-----|
| T ambient | LBP | MBP | HBP |
| 32°C / 90°F | fan 3m/s | fan 3m/s | n/a |
| 38°C / 100°F | fan 3m/s | fan 3m/s | n/a |
| 43°C / 110°F | fan 3m/s | fan 3m/s | n/a |

Operation pressure range



Components

| | | |
|----|------------------------------------|----------|
| a1 | e-PTC starter (220V, 250hm, 4.8mm) | 103N0050 |
| b | plastic cover | 103N0491 |
| d | cord relief | 103N1010 |

Model

| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 2 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Optimization + standard conditions

220V/50Hz, RSIR, fan 3m/s, VDE, CCC

| | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | | Power consumption | | | ASHRAE LBP |
|--|---|------|------|------|--|---------|----------|-------|----------|-----------|-------------------|----------------|--------|-------------|
| | pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P1 | I | Ref. mass flow | | |
| | [°C] | [°C] | [°C] | [°C] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | |
| | -23,3 | 54,4 | 32,2 | 32,2 | 242,1 | 827 | 208,3 | 1,56 | 5,32 | 1,34 | 155,3 | 1,01 | 2,45 | ASHRAE LBP |
| | [-10] | 130 | 90 | 90 | | | | | | | | | | |
| | -25 | 55 | 32 | 55 | 182,3 | 623 | 156,9 | 1,21 | 4,14 | 1,04 | 150,2 | 0,99 | 2,27 | cecomaf LBP |
| | [-13] | 131 | 89,6 | 131 | | | | | | | | | | |
| | -35 | 40 | 20 | 40 | 114,0 | 389 | 98,1 | 0,99 | 3,37 | 0,85 | 115,6 | 0,86 | 1,30 | EN12900 LBP |
| | [-31] | 104 | 68 | 104 | | | | | | | | | | |
| | -6,66 | 54,4 | 35 | 46,1 | 415,7 | 1420 | 357,8 | 1,98 | 6,75 | 1,70 | 210,4 | 1,20 | 4,74 | ASHRAE MBP |
| | [20] | 130 | 95 | 115 | | | | | | | | | | |
| | -10 | 55 | 32 | 55 | 330,8 | 1130 | 284,6 | 1,65 | 5,62 | 1,42 | 200,9 | 1,17 | 4,18 | cecomaf MBP |
| | [14] | 131 | 89,6 | 131 | | | | | | | | | | |
| | -10 | 45 | 20 | 45 | 362,5 | 1238 | 312,0 | 2,00 | 6,81 | 1,72 | 181,7 | 1,09 | 4,45 | EN12900 MBP |
| | [14] | 113 | 68 | 113 | | | | | | | | | | |

Performance tables

220V/50Hz, RSIR, fan 3m/s, VDE, CCC

| | pe | Cooling capacity | | | COP | EER | P1 | I | m | | |
|------------------|------|------------------|-------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -35 | -31 | 107,0 | 365 | 92,1 | 0,91 | 3,10 | 0,78 | 117,9 | 0,87 | 1,20 |
| cond. pressure | -25 | -13 | 200,9 | 686 | 172,9 | 1,40 | 4,80 | 1,21 | 143,0 | 0,96 | 2,27 |
| pc= 45/113 | -15 | 5 | 310,5 | 1061 | 267,3 | 1,83 | 6,26 | 1,58 | 169,4 | 1,05 | 3,53 |
| return gas temp. | -10 | 14 | 377,4 | 1289 | 324,8 | 2,08 | 7,09 | 1,79 | 181,7 | 1,09 | 4,32 |
| RGT= 32/90 | -5 | 23 | 455,5 | 1556 | 392,0 | 2,36 | 8,07 | 2,03 | 192,8 | 1,13 | 5,24 |
| liquid temp | 0 | 32 | 547,4 | 1869 | 471,1 | 2,71 | 9,25 | 2,33 | 202,2 | 1,17 | 6,35 |
| Tliq= 45/113 | 7,2 | 45 | 708,6 | 2420 | 609,8 | 3,35 | 11,44 | 2,88 | 211,6 | 1,21 | 8,33 |
| [°C / °F] | -35 | -31 | 103,9 | 355 | 89,5 | 0,87 | 2,99 | 0,75 | 118,9 | 0,89 | 1,29 |
| cond. pressure | -25 | -13 | 182,3 | 623 | 156,9 | 1,21 | 4,14 | 1,04 | 150,2 | 0,99 | 2,27 |
| pc= 55/131 | -15 | 5 | 273,9 | 935 | 235,7 | 1,49 | 5,08 | 1,28 | 184,2 | 1,11 | 3,44 |
| return gas temp | -10 | 14 | 330,8 | 1130 | 284,6 | 1,65 | 5,62 | 1,42 | 200,9 | 1,17 | 4,18 |
| RGT= 32/90 | -5 | 23 | 398,2 | 1360 | 342,7 | 1,84 | 6,27 | 1,58 | 216,9 | 1,23 | 5,07 |
| liquid temp | 0 | 32 | 478,8 | 1635 | 412,1 | 2,07 | 7,07 | 1,78 | 231,4 | 1,29 | 6,15 |
| Tliq= 55/131 | 7,2 | 45 | 622,7 | 2127 | 535,9 | 2,50 | 8,54 | 2,15 | 249,0 | 1,37 | 8,11 |

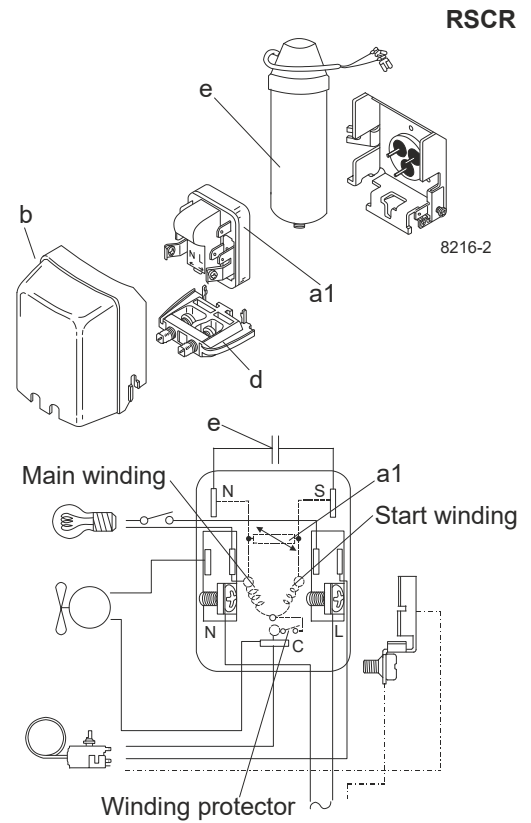
Model

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|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 3 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | RSCR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R290 |
| Application | LBP+MBP |
| Voltage range | 198-254V |
| Starting torque | LST |
| Approvals | VDE CCC |

Electrical accessories / wiring diagram

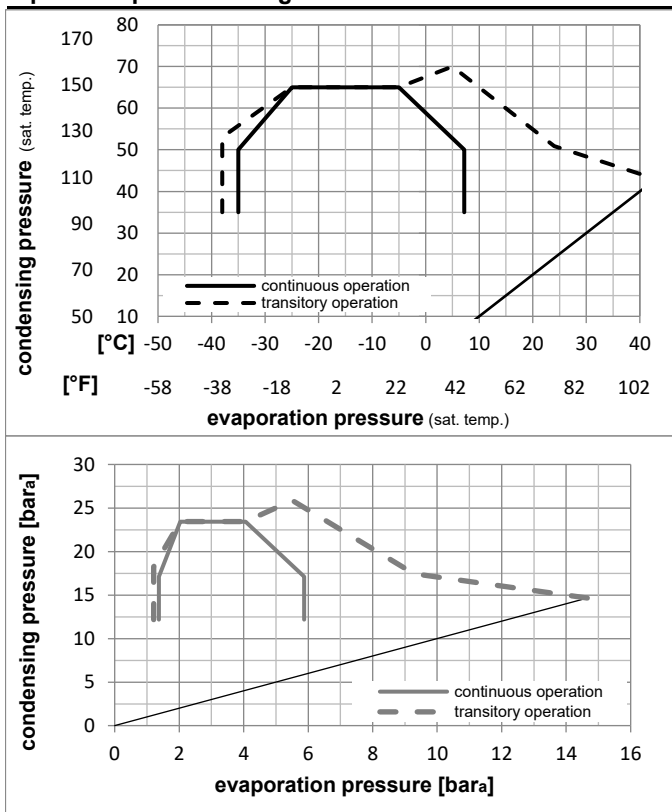


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F |
| Ambient temperature max.: | 43°C / 110°F |

| System cooling (n/a: outside limits) | | | |
|--------------------------------------|----------|----------|-----|
| T ambient | LBP | MBP | HBP |
| 32°C / 90°F | fan 3m/s | fan 3m/s | n/a |
| 38°C / 100°F | fan 3m/s | fan 3m/s | n/a |
| 43°C / 110°F | fan 3m/s | fan 3m/s | n/a |

Operation pressure range



Components

| | | |
|----|------------------------------------|----------|
| a1 | e-PTC starter (220V, 250hm, 4.8mm) | 103N0050 |
| e | run capacitor (5μF, 4.8mm) | 117-7129 |
| b | plastic cover | 103N0491 |
| d | cord relief | 103N1010 |
| | bracket for run capacitor | 117-0300 |
| | screw M4x8mm | 117-0301 |

Model

Designation **DLE4.8CN 220-240V/50Hz** Conf. **3** Sales code: **102H5501**

Optimization + standard conditions

220V/50Hz, RSCR, fan 3m/s, VDE, CCC

| | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | | Power consumption | | | ASHRAE LBP |
|--|---|------|------|------|--|---------|----------|-------|----------|-----------|-------------------|----------------|--------|-------------|
| | pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P1 | I | Ref. mass flow | | |
| | [°C] | [°C] | [°C] | [°C] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | |
| | -23,3 | 54,4 | 32,2 | 32,2 | 241,1 | 824 | 207,5 | 1,65 | 5,62 | 1,42 | 146,5 | 0,91 | 2,44 | ASHRAE LBP |
| | [-10] | 130 | 90 | 90 | | | | | | | | | | |
| | -25 | 55 | 32 | 55 | 181,3 | 619 | 156,1 | 1,28 | 4,36 | 1,10 | 141,9 | 0,90 | 2,26 | cecomaf LBP |
| | [-13] | 131 | 89,6 | 131 | | | | | | | | | | |
| | -35 | 40 | 20 | 40 | 123,1 | 420 | 106,0 | 1,11 | 3,80 | 0,96 | 110,5 | 0,79 | 1,41 | EN12900 LBP |
| | [-31] | 104 | 68 | 104 | | | | | | | | | | |
| | -6,66 | 54,4 | 35 | 46,1 | 420,5 | 1436 | 361,9 | 2,15 | 7,36 | 1,85 | 195,2 | 1,13 | 4,80 | ASHRAE MBP |
| | [20] | 130 | 95 | 115 | | | | | | | | | | |
| | -10 | 55 | 32 | 55 | 334,3 | 1142 | 287,7 | 1,79 | 6,11 | 1,54 | 186,8 | 1,09 | 4,23 | cecomaf MBP |
| | [14] | 131 | 89,6 | 131 | | | | | | | | | | |
| | -10 | 45 | 20 | 45 | 367,1 | 1254 | 316,0 | 2,17 | 7,41 | 1,87 | 169,2 | 0,99 | 4,51 | EN12900 MBP |
| | [14] | 113 | 68 | 113 | | | | | | | | | | |

Performance tables

220V/50Hz, RSCR, fan 3m/s, VDE, CCC

| | pe | Cooling capacity | | | COP | EER | P1 | I | m | | |
|------------------|------|------------------|-------|---------|----------|-------|----------|-----------|-------|------|--------|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] |
| [°C / °F] | -35 | -31 | 116,0 | 396 | 99,8 | 1,03 | 3,51 | 0,88 | 112,8 | 0,80 | 1,30 |
| cond. pressure | -25 | -13 | 203,7 | 696 | 175,3 | 1,51 | 5,15 | 1,30 | 135,2 | 0,83 | 2,30 |
| pc= 45/113 | -15 | 5 | 313,9 | 1072 | 270,2 | 1,98 | 6,77 | 1,71 | 158,3 | 0,93 | 3,57 |
| return gas temp. | -10 | 14 | 382,2 | 1305 | 328,9 | 2,26 | 7,72 | 1,94 | 169,2 | 0,99 | 4,37 |
| RGT= 32/90 | -5 | 23 | 461,8 | 1577 | 397,4 | 2,58 | 8,81 | 2,22 | 179,1 | 1,04 | 5,32 |
| liquid temp | 0 | 32 | 554,6 | 1894 | 477,3 | 2,95 | 10,09 | 2,54 | 187,7 | 1,09 | 6,43 |
| Tliq= 45/113 | 7,2 | 45 | 715,3 | 2443 | 615,6 | 3,63 | 12,40 | 3,13 | 197,0 | 1,11 | 8,40 |
| [°C / °F] | -35 | -31 | 104,9 | 358 | 90,3 | 0,92 | 3,14 | 0,79 | 114,0 | 0,85 | 1,30 |
| cond. pressure | -25 | -13 | 181,3 | 619 | 156,1 | 1,28 | 4,36 | 1,10 | 141,9 | 0,90 | 2,26 |
| pc= 55/131 | -15 | 5 | 275,7 | 942 | 237,3 | 1,60 | 5,48 | 1,38 | 171,9 | 1,02 | 3,47 |
| return gas temp | -10 | 14 | 334,3 | 1142 | 287,7 | 1,79 | 6,11 | 1,54 | 186,8 | 1,09 | 4,23 |
| RGT= 32/90 | -5 | 23 | 403,2 | 1377 | 347,0 | 2,01 | 6,85 | 1,73 | 201,0 | 1,16 | 5,14 |
| liquid temp | 0 | 32 | 484,1 | 1653 | 416,7 | 2,26 | 7,72 | 1,94 | 214,3 | 1,22 | 6,22 |
| Tliq= 55/131 | 7,2 | 45 | 625,8 | 2137 | 538,6 | 2,71 | 9,26 | 2,33 | 230,8 | 1,26 | 8,15 |

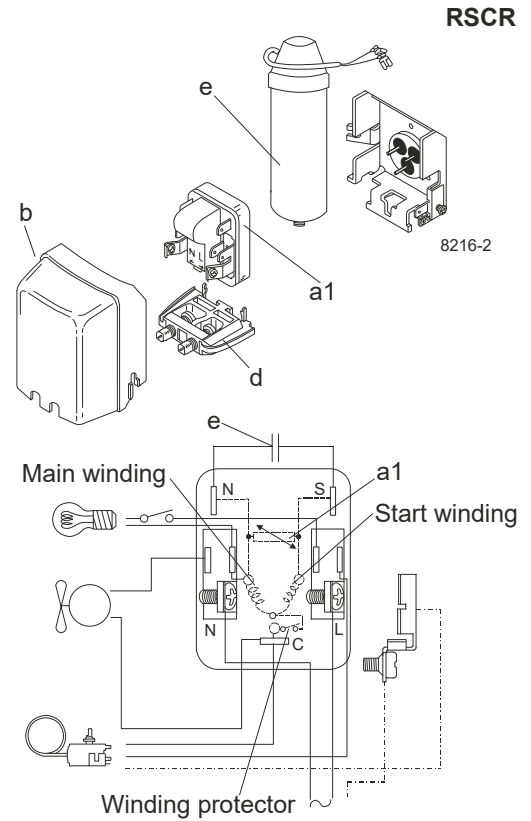
Model

| | | | | | |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|
| Designation | DLE4.8CN | 220-240V/50Hz | Conf. 4 | Sales code: | 102H5501 |
|-------------|-----------------|----------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | RSCR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R290 |
| Application | LBP+MBP |
| Voltage range | 198-254V |
| Starting torque | LST |
| Approvals | VDE CCC |

Electrical accessories / wiring diagram

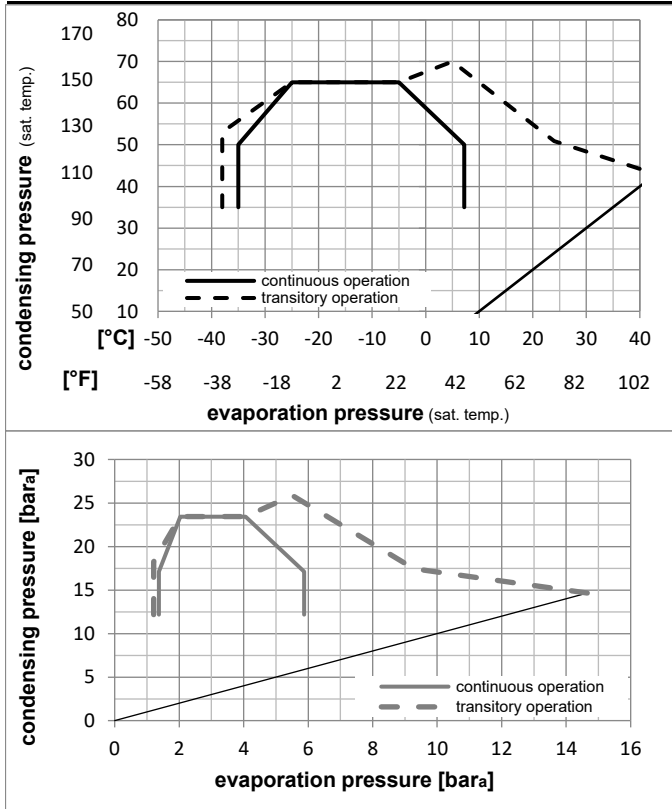


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| Ambient temperature min.: | 10°C / 50°F |
| Ambient temperature max.: | 43°C / 110°F |

| System cooling (n/a: outside limits) | | | |
|--------------------------------------|--------|--------|-----|
| T ambient | LBP | MBP | HBP |
| 32°C / 90°F | static | static | n/a |
| 38°C / 100°F | static | static | n/a |
| 43°C / 110°F | static | static | n/a |

Operation pressure range



Components

| | | |
|----|------------------------------------|----------|
| a1 | e-PTC starter (220V, 250hm, 4.8mm) | 103N0050 |
| e | run capacitor (5μF, 4.8mm) | 117-7129 |
| b | plastic cover | 103N0491 |
| d | cord relief | 103N1010 |
| | bracket for run capacitor | 117-0300 |
| | screw M4x8mm | 117-0301 |

Model

Designation **DLE4.8CN 220-240V/50Hz** Conf. **4** Sales code: **102H5501**

Optimization + standard conditions

220V/50Hz, RSCR, static, VDE, CCC

| | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | | Power consumption | | | ASHRAE LBP |
|--|---|------|------|------|--|---------|----------|-------|----------|-----------|-------------------|------|----------------|-------------|
| | pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | | P1 | I | Ref. mass flow | |
| | [°C] | [°C] | [°C] | [°C] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | |
| | -23,3 | 54,4 | 32,2 | 32,2 | 235,8 | 805 | 202,9 | 1,62 | 5,54 | 1,40 | 145,3 | 0,90 | 2,39 | |
| | [°F] | | | | | | | | | | | | | |
| | -10 | 130 | 90 | 90 | | | | | | | | | | |
| | -25 | 55 | 32 | 55 | 177,6 | 606 | 152,8 | 1,26 | 4,32 | 1,09 | 140,4 | 0,89 | 2,21 | cecomaf LBP |
| | [°F] | | | | | | | | | | | | | |
| | -13 | 131 | 89,6 | 131 | | | | | | | | | | |
| | -35 | 40 | 20 | 40 | 130,2 | 445 | 112,0 | 1,22 | 4,17 | 1,05 | 106,6 | 0,76 | 1,49 | EN12900 LBP |
| | [°F] | | | | | | | | | | | | | |
| | -31 | 104 | 68 | 104 | | | | | | | | | | |
| | -6,66 | 54,4 | 35 | 46,1 | 413,6 | 1413 | 356,0 | 2,11 | 7,22 | 1,82 | 195,6 | 1,13 | 4,72 | ASHRAE MBP |
| | [°F] | | | | | | | | | | | | | |
| | 20 | 130 | 95 | 115 | | | | | | | | | | |
| | -10 | 55 | 32 | 55 | 328,7 | 1123 | 282,9 | 1,76 | 6,00 | 1,51 | 187,1 | 1,09 | 4,16 | cecomaf MBP |
| | [°F] | | | | | | | | | | | | | |
| | 14 | 131 | 89,6 | 131 | | | | | | | | | | |
| | -10 | 45 | 20 | 45 | 360,5 | 1231 | 310,3 | 2,13 | 7,26 | 1,83 | 169,5 | 0,99 | 4,43 | EN12900 MBP |
| | [°F] | | | | | | | | | | | | | |
| | 14 | 113 | 68 | 113 | | | | | | | | | | |

Performance tables

220V/50Hz, RSCR, static, VDE, CCC

| | pe | Cooling capacity | | | COP | | | EER | | P1 | I | m |
|------------------|------|------------------|-------|---------|----------|-------|----------|-----------|-------|------|--------|---|
| | [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | [kg/h] | |
| [°C / °F] | -35 | -31 | 122,7 | 419 | 105,6 | 1,13 | 3,85 | 0,97 | 108,8 | 0,78 | 1,38 | |
| cond. pressure | -25 | -13 | 200,0 | 683 | 172,1 | 1,50 | 5,11 | 1,29 | 133,7 | 0,82 | 2,26 | |
| pc= 45/113 | -15 | 5 | 307,6 | 1051 | 264,8 | 1,94 | 6,64 | 1,67 | 158,2 | 0,93 | 3,50 | |
| return gas temp. | -10 | 14 | 375,3 | 1282 | 323,0 | 2,21 | 7,56 | 1,91 | 169,5 | 0,99 | 4,29 | |
| RGT= 32/90 | -5 | 23 | 453,6 | 1549 | 390,4 | 2,53 | 8,63 | 2,17 | 179,6 | 1,05 | 5,22 | |
| liquid temp | 0 | 32 | 543,5 | 1856 | 467,7 | 2,89 | 9,87 | 2,49 | 188,1 | 1,09 | 6,30 | |
| Tliq= 45/113 | 7,2 | 45 | 695,3 | 2375 | 598,4 | 3,53 | 12,05 | 3,04 | 197,0 | 1,11 | 8,17 | |
| [°C / °F] | -35 | -31 | 110,6 | 378 | 95,2 | 1,01 | 3,43 | 0,87 | 109,9 | 0,82 | 1,37 | |
| cond. pressure | -25 | -13 | 177,6 | 606 | 152,8 | 1,26 | 4,32 | 1,09 | 140,4 | 0,89 | 2,21 | |
| pc= 55/131 | -15 | 5 | 270,2 | 923 | 232,6 | 1,57 | 5,37 | 1,35 | 171,9 | 1,02 | 3,40 | |
| return gas temp | -10 | 14 | 328,7 | 1123 | 282,9 | 1,76 | 6,00 | 1,51 | 187,1 | 1,09 | 4,16 | |
| RGT= 32/90 | -5 | 23 | 396,6 | 1354 | 341,3 | 1,97 | 6,72 | 1,69 | 201,5 | 1,16 | 5,05 | |
| liquid temp | 0 | 32 | 474,9 | 1622 | 408,7 | 2,21 | 7,55 | 1,90 | 214,7 | 1,22 | 6,10 | |
| Tliq= 55/131 | 7,2 | 45 | 608,0 | 2076 | 523,2 | 2,63 | 8,99 | 2,27 | 230,9 | 1,26 | 7,92 | |