

Single Pack SC18CLX.2 115V 60Hz CSCR

Codice Imballo Singolo: **195B4494**

| Posizione | Titolo | Codice | Quantità |
|-----------|--|----------|----------|
| 1 | Compressor SC18CLX.2 | 104L2198 | 1 |
| 2 | Starting relay (RVA 7AA3R435) | 117-7441 | 1 |
| 3 | Run capacitor (23.5µF 190V, 6.3mm) | 117-7114 | 1 |
| 4 | Starting capacitor (410µF 125V, 6.3mm) | 117U5043 | 1 |
| 5 | Bolt joint for one compressor M6 ø16mm | 118-1917 | 1 |

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Model

| | | | | |
|-------------|------------------|--------------|-------------|-----------------|
| Designation | SC18CLX.2 | 115V/60Hz 1~ | Sales code: | 104L2198 |
|-------------|------------------|--------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R404A, R452A, R507 |
| Oil viscosity | 32cST | Displacement | 17,69cm ³ / 1,08cu.in |
| Oil quantity | 550cm ³ / 18,6fl.oz | Compressors on pallet | 80 |
| Refr. charge - tech. limit | 1300g / 45,9oz | | |
| Free gas volume comp. | 1460cm ³ / 49,4fl.oz | | |
| Weight | 14,2kg / 31,3lbs | | |
| Motor protection | external | | |
| Winding resistance main | 0,6Ω (at 25°C) | | |
| Winding resistance aux | 3,2Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 130°C / 266°F | | |



General - Configurations with SC18CLX.2

| | Conf. 1 | Conf. 2 |
|------------------------|---|----------------|
| Motorconfiguration | CSCR | CSCR |
| Power supply (nominal) | 115V/60Hz | 115V/60Hz |
| Number of phases | 1 | 1 |
| Voltage range | 103-127V | 103-127V |
| Approvals | UL | UL |
| Starting torque | HST | HST |
| Note | Protector and cover are included and pre-assembled to compressor. | |

Applications with SC18CLX.2

| | Conf. 1 | Conf. 2 |
|-------------------------|----------------|----------------|
| Refrigerant | R404A | R452A |
| Application | LBP | LBP |
| System cooling | fan 3m/s | fan 3m/s |
| Hot gas defrost | OK | OK |
| Long interval pull down | -/- | -/- |

Electrical data - Configurations with SC18CLX.2

| | Conf. 1 | Conf. 2 |
|------------------------------|----------------|----------------|
| Starting device type | relay | relay |
| Run capacitor | 23,5μF | 23,5μF |
| Start capacitor | 410μF | 410μF |
| LRA (locked rotor amps / 4s) | 63A | 63A |
| RLA (rated load amps / 1s) | 9,6A | 9,6A |
| Cut in current | 63A | 63A |
| IP class | 21 | 21 |

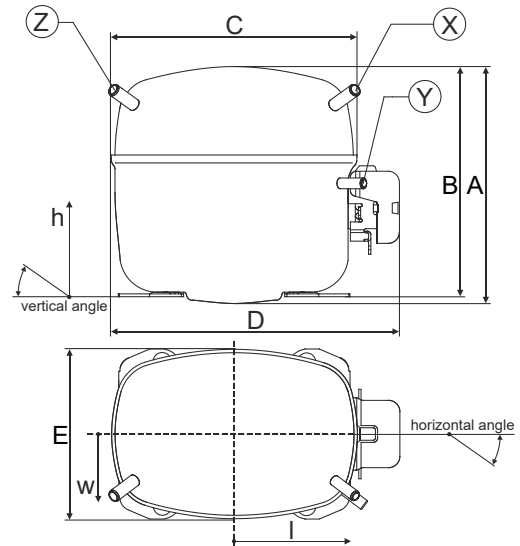
Model

| | | | | |
|-------------|------------------|--------------|-------------|-----------------|
| Designation | SC18CLX.2 | 115V/60Hz 1~ | Sales code: | 104L2198 |
|-------------|------------------|--------------|-------------|-----------------|

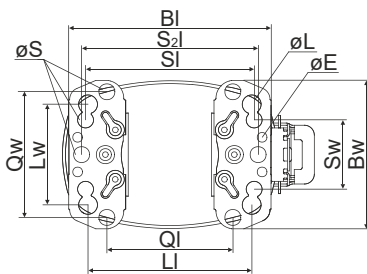
Compressor dimensions

| | | |
|----------------|-------------------|-----------------|
| Housing | A Height | 219mm / 8,62in |
| | B Height | 213mm / 8,39in |
| | C Length shell | 218mm / 8,58in |
| | D Length w. cover | 255mm / 10,04in |
| | E Width | 151mm / 5,94in |

| Connectors | | Suction | Discharge | Process |
|-----------------------|------|----------------|------------------|----------------|
| | | X | Y | Z |
| Diameter | [mm] | øi 9,54-9,72 | øi 6,41-6,59 | øi 6,41-6,59 |
| (i:inside, o:outside) | [in] | øi 0,38-0,38 | øi 0,25-0,26 | øi 0,25-0,26 |
| Material | | copper | copper | copper |
| Horizontal angle | ±2° | 37° | 37° | 143° |
| Vertical angle | ±2° | 30° | 0° | 150° |
| Position l/h/w | [mm] | 107/193/55 | 115/110/63 | -107/193/55 |
| | [in] | 4,2/7,6/2,2 | 4,5/4,3/2,5 | -4,2/7,6/2,2 |
| Straight tube l. | [mm] | 12 | 12 | 12 |
| | [in] | 0,5 | 0,5 | 0,5 |

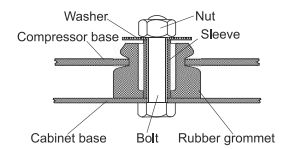


Compressor fixation

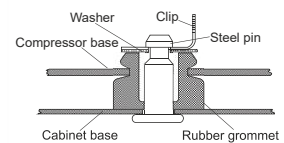


| Baseplate | [mm] | [inch] |
|-------------|-------|--------|
| BI | 204 | 8.03 |
| BW | 150 | 5.9 |
| øE | ø 9.7 | ø 0.38 |
| Large holes | [mm] | [inch] |
| LI | 165 | 6.5 |
| LW | 101.6 | 4 |
| øL | ø 19 | ø 0.75 |
| Small holes | [mm] | [inch] |
| SI | 170 | 6.7 |
| SW | 70 | 2.76 |
| øS | ø 16 | ø 0.63 |
| QI | 127 | 5 |
| QW | 127 | 5 |

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 | |
| Bolt joint ø1/4" ø19mm | 118-1949 | |
| Snap-on ø7,3 ø16mm | 118-1947 | 118-1919 |

Application notes

LRA value on compressor label and datasheet may differ due to different test conditions for UL approval.

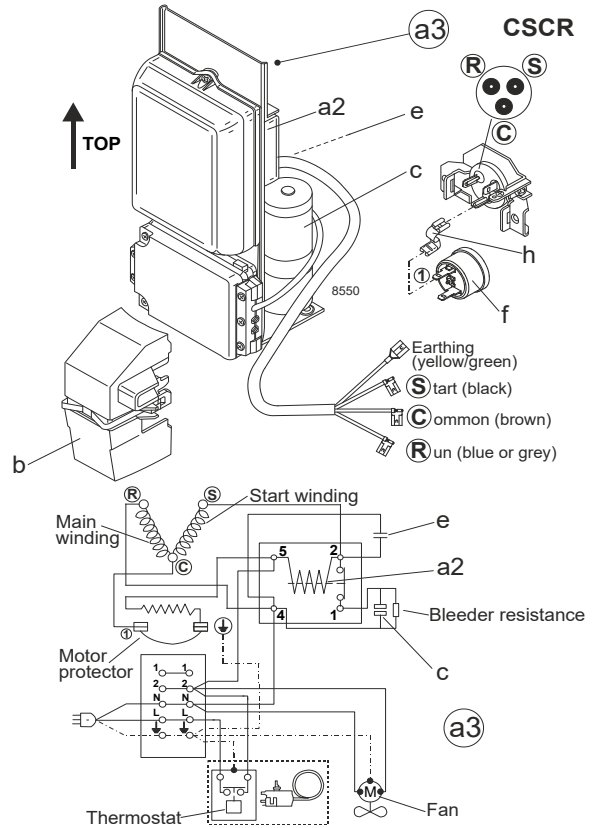
Model

| | | | | | |
|-------------|------------------|------------------|----------------|-------------|-----------------|
| Designation | SC18CLX.2 | 115V/60Hz | Conf. 1 | Sales code: | 104L2198 |
|-------------|------------------|------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|--------------|
| Motorconfiguration | CSCR |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant | R404A |
| Application | LBP |
| Voltage range | 103-127V |
| Starting torque | HST |
| Approvals | UL |

Electrical accessories / wiring diagram

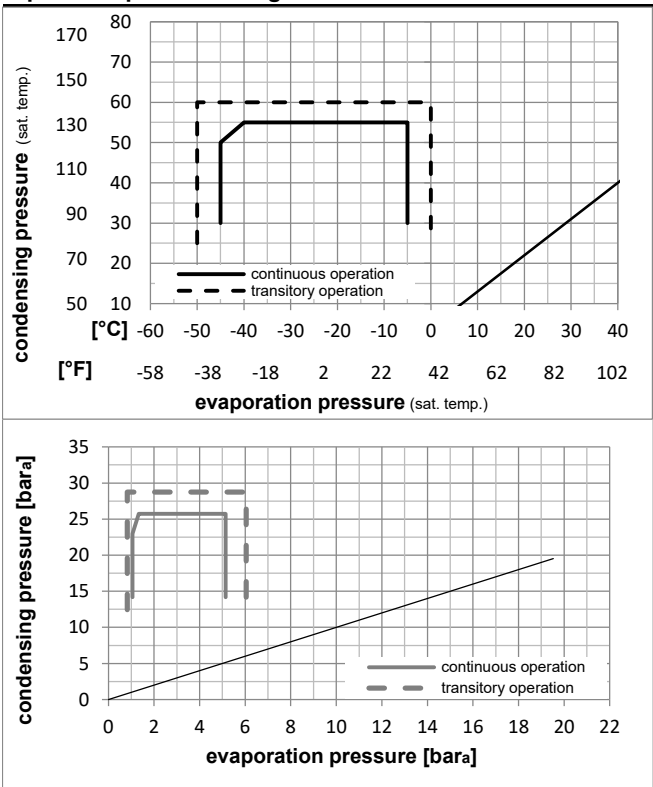


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| 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 | n/a | n/a |
| 38°C / 100°F | fan 3m/s | n/a | n/a |
| 43°C / 110°F | fan 3m/s | n/a | n/a |

Operation pressure range



Components (protector + ~holder + cover: pre assembled)

| | | |
|----|---------------------------|----------|
| a3 | SC starter kit | 117-7045 |
| f | ext. protector (T0761/46) | 117U3212 |
| b | plastic cover | 117U1021 |

Alternative comp. (protector + ~holder + cover: pre assemb.)

| | | |
|----|--------------------------------|----------|
| a2 | potential relay (RVA 7AA3R) | 117-7441 |
| e | run capacitor (23,5µF, 6.3mm) | 117-7114 |
| c | start capacitor (410µF, 6.3mm) | 117U5043 |
| f | ext. protector (T0761/46) | 117U3212 |
| b | plastic cover | 117U1021 |

Model

Designation **SC18CLX.2 115V/60Hz** Conf. 1 Sales code: **104L2198**

Optimization + standard conditions

115V/60Hz, CSCR, fan 3m/s, UL

| Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | Power consumption | | | | ASHRAE LBP | | |
|---|-------|------|------|--|---------|----------|-------|---------------------|-----------|------|-------|------------|----------------|-------------|
| Return gas temp. | | | | Liquid temp. | | | | Current consumption | | | | | Ref. mass flow | |
| Cooling capacity | | | | COP | EER | P1 | I | m | | | | | | |
| pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | | [kg/h] | |
| [°C] | -23,3 | 54,4 | 32,2 | 32,2 | 1072,9 | 3664 | 923,4 | 1,31 | 4,48 | 1,13 | 818,1 | 8,99 | 25,00 | ASHRAE LBP |
| [°F] | -10 | 130 | 90 | 90 | | | | | | | | | | |
| [°C] | -25 | 55 | 32 | 55 | 737,7 | 2519 | 634,9 | 0,94 | 3,21 | 0,81 | 784,8 | 8,76 | 23,06 | cecomaf LBP |
| [°F] | -13 | 131 | 89,6 | 131 | | | | | | | | | | |
| [°C] | -35 | 40 | 20 | 40 | 569,0 | 1943 | 489,6 | 0,97 | 3,31 | 0,83 | 587,8 | 7,51 | 15,46 | EN12900 LBP |
| [°F] | -31 | 104 | 68 | 104 | | | | | | | | | | |
| [°C] | -23,3 | 48,9 | 4,44 | 48,9 | 779,8 | 2663 | 671,1 | 0,97 | 3,30 | 0,83 | 807,9 | 8,92 | 27,61 | ARI540 LBP |
| [°F] | -10 | 120 | 40 | 120 | | | | | | | | | | |
| [°C] | -23,3 | 40,6 | 32,2 | 32,2 | 1156,3 | 3949 | 995,1 | 1,47 | 5,01 | 1,26 | 788,0 | 8,80 | 26,94 | AHAM LBP |
| [°F] | -10 | 105 | 90 | 90 | | | | | | | | | | |
| [°C] | -35 | 45 | 32 | 45 | 523,1 | 1787 | 450,2 | 0,91 | 3,10 | 0,78 | 577,0 | 7,47 | 13,98 | opt |
| [°F] | -31 | 113 | 89,6 | 113 | | | | | | | | | | |

Performance tables

115V/60Hz, CSCR, fan 3m/s, UL

| | 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] | -45 | -49 | 108,7 | 371 | 93,6 | 0,34 | 1,16 | 0,29 | 320,1 | 6,25 | 2,89 |
| cond. pressure | -34,4 | -30 | 544,2 | 1859 | 468,4 | 0,92 | 3,15 | 0,80 | 589,1 | 7,54 | 14,55 |
| pc= 45/113 | -28,9 | -20 | 753,6 | 2574 | 648,6 | 1,08 | 3,67 | 0,93 | 700,8 | 8,21 | 20,25 |
| return gas temp. | -23,3 | -10 | 973,0 | 3323 | 837,4 | 1,22 | 4,16 | 1,05 | 799,3 | 8,87 | 26,29 |
| RGT= 32/90 | -20,6 | -5 | 1092,1 | 3730 | 939,9 | 1,29 | 4,41 | 1,11 | 845,3 | 9,20 | 29,61 |
| liquid temp | -15 | 5 | 1360,3 | 4646 | 1170,7 | 1,46 | 4,97 | 1,25 | 934,3 | 9,85 | 37,16 |
| Tliq= 45/113 | -5 | 23 | 1994,5 | 6812 | 1716,5 | 1,81 | 6,19 | 1,56 | 1099,9 | 11,02 | 55,45 |
| [°C / °F] | -45 | -49 | -101,7 | -347 | -87,5 | -0,43 | -1,47 | -0,37 | 236,6 | 5,93 | -3,12 |
| cond. pressure | -34,4 | -30 | 391,4 | 1337 | 336,8 | 0,69 | 2,37 | 0,60 | 563,6 | 7,43 | 12,11 |
| pc= 55/131 | -28,9 | -20 | 599,8 | 2048 | 516,2 | 0,86 | 2,93 | 0,74 | 700,0 | 8,22 | 18,66 |
| return gas temp | -23,3 | -10 | 796,6 | 2721 | 685,6 | 0,97 | 3,32 | 0,84 | 819,0 | 8,99 | 24,95 |
| RGT= 32/90 | -20,6 | -5 | 896,3 | 3061 | 771,4 | 1,03 | 3,50 | 0,88 | 873,7 | 9,38 | 28,18 |
| liquid temp | -15 | 5 | 1109,6 | 3790 | 955,0 | 1,14 | 3,88 | 0,98 | 977,1 | 10,15 | 35,19 |
| Tliq= 55/131 | -5 | 23 | 1590,7 | 5432 | 1368,9 | 1,37 | 4,69 | 1,18 | 1158,5 | 11,51 | 51,49 |

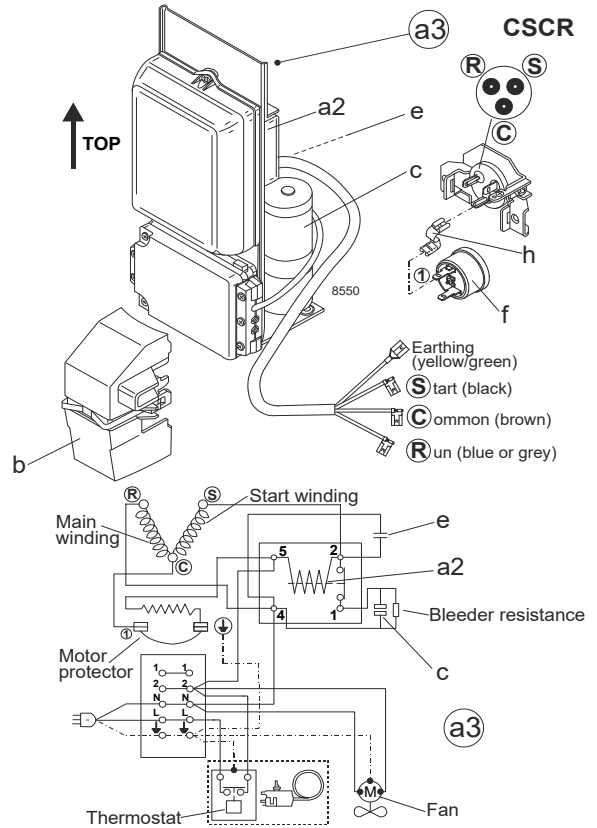
Model

| | | | | | |
|-------------|------------------|------------------|----------------|-------------|-----------------|
| Designation | SC18CLX.2 | 115V/60Hz | Conf. 2 | Sales code: | 104L2198 |
|-------------|------------------|------------------|----------------|-------------|-----------------|

Configuration

| | |
|------------------------|--------------|
| Motorconfiguration | CSCR |
| Power supply (nominal) | 115V/60Hz 1~ |
| Refrigerant | R452A |
| Application | LBP |
| Voltage range | 103-127V |
| Starting torque | HST |
| Approvals | UL |

Electrical accessories / wiring diagram

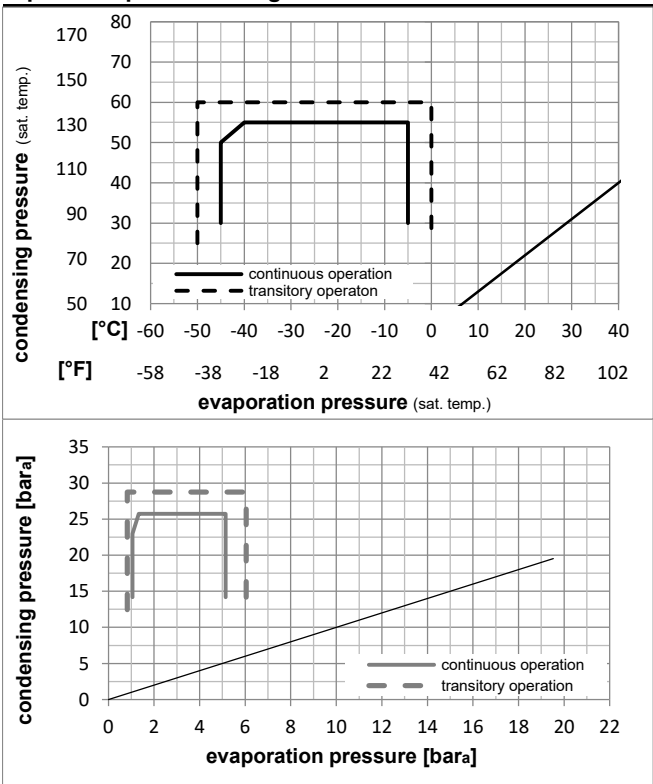


Ambient temperatures / system cooling

| | |
|---------------------------|--------------|
| 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 | n/a | n/a |
| 38°C / 100°F | fan 3m/s | n/a | n/a |
| 43°C / 110°F | fan 3m/s | n/a | n/a |

Operation pressure range



Components (protector + ~holder + cover: pre assembled)

| | | |
|----|---------------------------|----------|
| a3 | SC starter kit | 117-7045 |
| f | ext. protector (T0761/46) | 117U3212 |
| b | plastic cover | 117U1021 |

Alternative comp. (protector + ~holder + cover: pre assemb.)

| | | |
|----|--------------------------------|----------|
| a2 | potential relay (RVA 7AA3R) | 117-7441 |
| e | run capacitor (23,5µF, 6.3mm) | 117-7114 |
| c | start capacitor (410µF, 6.3mm) | 117U5043 |
| f | ext. protector (T0761/46) | 117U3212 |
| b | plastic cover | 117U1021 |

Model

Designation **SC18CLX.2 115V/60Hz** Conf. **2** Sales code: **104L2198**

Optimization + standard conditions

115V/60Hz, CSCR, fan 3m/s, UL

| Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | Power consumption | | | | ASHRAE LBP | | |
|---|-------|------|------|--|---------|----------|-------|---------------------|-----------|------|-------|---------------|---------------------|----------------|
| Return gas temp. | | | | Liquid temp. | | | | Current consumption | | | | | Ref. mass flow ṁ | |
| Cooling capacity | | | | COP | | EER | | P1 | | I | | | | |
| pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | [A] | | | [kg/h] |
| [°C] | -23,3 | 54,4 | 32,2 | 32,2 | 979,6 | 3346 | 843,1 | 1,27 | 4,33 | 1,09 | 773,4 | 8,83 | 23,55 | ASHRAE LBP |
| [°F] | -10 | 130 | 90 | 90 | | | | | | | | | | |
| [°C] | -25 | 55 | 32 | 55 | 679,6 | 2321 | 584,9 | 0,92 | 3,14 | 0,79 | 740,0 | 8,62 | 21,63 | cecomaf LBP |
| [°F] | -13 | 131 | 89,6 | 131 | | | | | | | | | | |
| [°C] | -35 | 40 | 20 | 40 | 513,3 | 1753 | 441,7 | 0,93 | 3,18 | 0,80 | 551,5 | 7,41 | 14,33 | EN12900 LBP |
| [°F] | -31 | 104 | 68 | 104 | | | | | | | | | | |
| [°C] | -23,3 | 48,9 | 4,44 | 48,9 | 723,0 | 2469 | 622,2 | 0,94 | 3,22 | 0,81 | 765,6 | 8,78 | 25,99 | ARI540 LBP |
| [°F] | -10 | 120 | 40 | 120 | | | | | | | | | | |
| [°C] | -23,3 | 40,6 | 32,2 | 32,2 | 1061,2 | 3624 | 913,3 | 1,42 | 4,84 | 1,22 | 748,5 | 8,67 | 25,51 | AHAM LBP |
| [°F] | -10 | 105 | 90 | 90 | | | | | | | | | | |
| [°C] | -35 | 45 | 32 | 45 | 471,1 | 1609 | 405,5 | 0,87 | 2,98 | 0,75 | 540,2 | 7,34 | 12,93 | opt |
| [°F] | -31 | 113 | 89,6 | 113 | | | | | | | | | | |

Performance tables

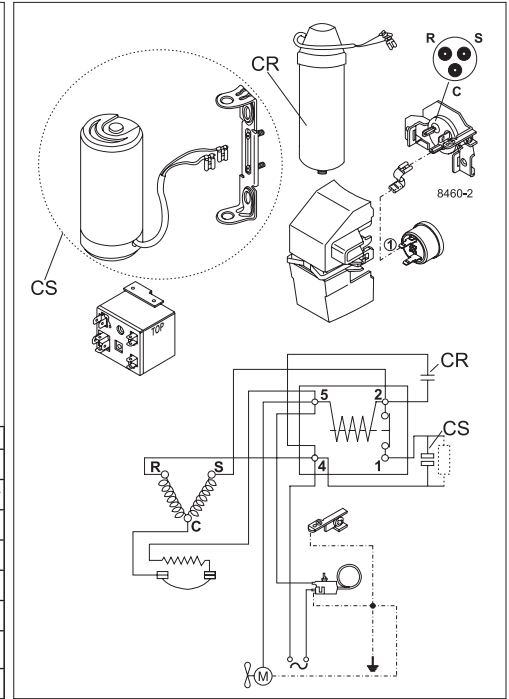
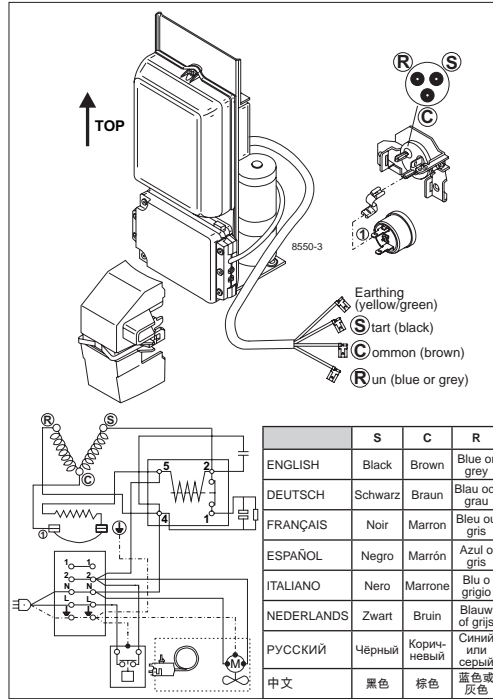
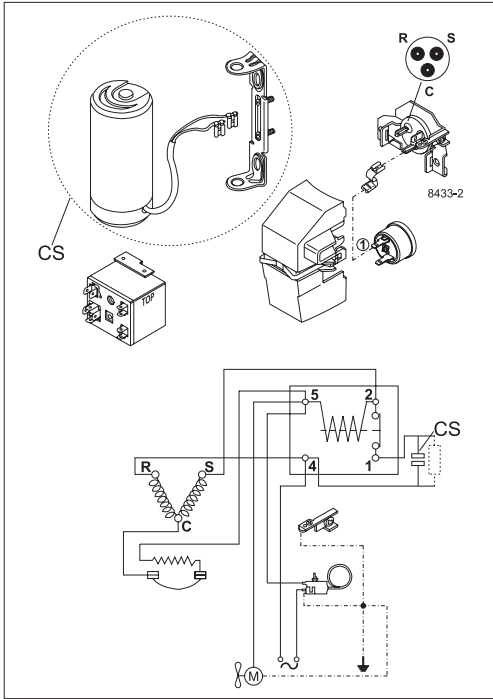
115V/60Hz, CSCR, fan 3m/s, UL

| | 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] | -45 | -49 | 87,0 | 297 | 74,9 | 0,29 | 1,00 | 0,25 | 296,1 | 5,78 | 2,37 | |
| cond. pressure | -34,4 | -30 | 490,8 | 1676 | 422,4 | 0,89 | 3,04 | 0,77 | 551,9 | 7,41 | 13,48 | |
| pc= 45/113 | -28,9 | -20 | 687,9 | 2349 | 592,0 | 1,04 | 3,56 | 0,90 | 660,7 | 8,11 | 18,96 | |
| return gas temp. | -23,3 | -10 | 896,8 | 3063 | 771,8 | 1,18 | 4,04 | 1,02 | 758,4 | 8,73 | 24,85 | |
| RGT= 32/90 | -20,6 | -5 | 1011,2 | 3453 | 870,2 | 1,26 | 4,29 | 1,08 | 804,5 | 9,03 | 28,10 | |
| liquid temp | -15 | 5 | 1270,6 | 4339 | 1093,5 | 1,42 | 4,85 | 1,22 | 894,6 | 9,61 | 35,54 | |
| Tliq= 45/113 | -5 | 23 | 1888,6 | 6450 | 1625,4 | 1,78 | 6,07 | 1,53 | 1063,4 | 10,69 | 53,67 | |
| [°C / °F] | -45 | -49 | -104,7 | -358 | -90,1 | -0,49 | -1,68 | -0,42 | 213,0 | 5,24 | -3,28 | |
| cond. pressure | -34,4 | -30 | 352,5 | 1204 | 303,3 | 0,67 | 2,30 | 0,58 | 523,9 | 7,23 | 11,12 | |
| pc= 55/131 | -28,9 | -20 | 548,4 | 1873 | 472,0 | 0,84 | 2,85 | 0,72 | 656,4 | 8,08 | 17,38 | |
| return gas temp | -23,3 | -10 | 736,1 | 2514 | 633,5 | 0,95 | 3,25 | 0,82 | 774,0 | 8,83 | 23,47 | |
| RGT= 32/90 | -20,6 | -5 | 832,3 | 2842 | 716,2 | 1,00 | 3,43 | 0,86 | 828,7 | 9,18 | 26,62 | |
| liquid temp | -15 | 5 | 1040,2 | 3552 | 895,2 | 1,11 | 3,81 | 0,96 | 933,2 | 9,85 | 33,53 | |
| Tliq= 55/131 | -5 | 23 | 1514,9 | 5174 | 1303,8 | 1,35 | 4,63 | 1,17 | 1118,5 | 11,04 | 49,72 | |



SC Compressors

(External Protector)



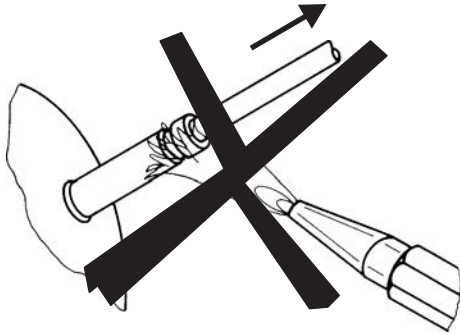
| | S | C | R |
|------------|---------|------------|-----------------|
| ENGLISH | Black | Brown | Blue or grey |
| DEUTSCH | Schwarz | Braun | Blau od. grau |
| FRANÇAIS | Noir | Marron | Bleu ou gris |
| ESPAÑOL | Negro | Marrón | Azul o gris |
| ITALIANO | Nero | Marrone | Blu o grigio |
| NEDERLANDS | Zwart | Bruin | Vlaauw of grijs |
| РУССКИЙ | Чёрный | Коричневый | Синий или серый |
| 中文 | 黑色 | 棕色 | 蓝色或灰色 |



SC Compressors (External Protector)



Service/Repair – R290



8545



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