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Category: Files

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## Mbsm.pro, démonter une clim sans perdre le gaz

Category: Chaud&Froid

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Mbsm.pro, démonter une clim sans perdre le gaz

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## Mbsm.pro, Danfoss, Compressor, SM160T4RC, SM-160, 13hp, 3ph, R22, 133500BTU

Category: compressor

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SM160T4RC

# Basic Info.

Model NO.Sm160N.W.90kgTransport PackagePackage: Wooden Case/Pallet or as Your  
RequirmentSpecificationSM series SM090TrademarkperformerOriginFranceHS  
Code8414301300Production Capacity50000 Sets/Year

## Product Description

SM-160 Performer Scroll compressor for R22

13HP Performer Scroll Compressor SM160

### SPECIFICATIONS FOR SM160

|                             |                    |                |
|-----------------------------|--------------------|----------------|
| Products Details            | Models: SM160 Type | Hermetic       |
| Power                       | Phase              | 3              |
| Horse Power                 | HP                 | 13             |
| Main performance parameters | Input Power        | W 380-420/3/60 |
| REFRIGRANT                  |                    | R22            |
| SIZE                        |                    | 54.0/35.0      |
| Phyiscal parameters         | Hight              | MM 353         |
| Weight                      | KG                 | 90             |
| Q'ty / Pallet               | PIECE              | 6              |

### Product Description

5.Techincal sheet as below:

50Hz

Data

| Model | Nominal<br>Cap.60HZ | Nominal<br>cooling<br>capacity | Power<br>input | Cop   | E.E.R.  | Swept<br>Volume | Displacement | Oil<br>charge | N.W.    |
|-------|---------------------|--------------------------------|----------------|-------|---------|-----------------|--------------|---------------|---------|
| TR    | W                   | Btu/h                          | KW             | W/W   | Btu/h/W | cm/rew          | m/h          | dm            | kg      |
| SM084 | 7                   | 20400                          | 69600          | 6.12  | 3.33    | 11.4            | 114.5        | 19.92         | 3.3 64  |
| SM090 | 7.5                 | 21800                          | 74400          | 6.54  | 3.33    | 11.4            | 120.5        | 20.97         | 3.3 65  |
| SM100 | 8                   | 23100                          | 79000          | 6.96  | 3.33    | 11.3            | 127.2        | 22.13         | 3.3 65  |
| SM110 | 9                   | 25900                          | 88600          | 7.82  | 3.32    | 11.3            | 144.2        | 25.09         | 3.3 73  |
| SM112 | 9.5                 | 27600                          | 94400          | 7.92  | 3.49    | 11.9            | 151.5        | 26.36         | 3.3 64  |
| SM115 | 9.5                 | 28000                          | 95600          | 8.31  | 3.37    | 11.5            | 155          | 26.97         | 3.8 78  |
| SM120 | 10                  | 30100                          | 102800         | 8.96  | 3.36    | 11.5            | 166.6        | 28.99         | 3.3 73  |
| SM124 | 10                  | 31200                          | 106300         | 8.75  | 3.56    | 12.2            | 169.5        | 29.5          | 3.3 64  |
| SM125 | 10                  | 30100                          | 102800         | 8.93  | 3.37    | 11.5            | 166.6        | 28.99         | 3.8 78  |
| SM147 | 12                  | 36000                          | 123000         | 10.08 | 3.58    | 12.2            | 193.5        | 33.7          | 3.3 67  |
| SM148 | 12                  | 36100                          | 123100         | 10.8  | 3.34    | 11.4            | 199          | 34.6          | 3.6 88  |
| SM160 | 13                  | 39100                          | 133500         | 11.6  | 3.37    | 11.5            | 216.6        | 37.69         | 4 90    |
| SM161 | 13                  | 39000                          | 133200         | 11.59 | 3.37    | 11.5            | 216.6        | 37.69         | 3.6 88  |
| SM175 | 14                  | 42000                          | 143400         | 12.46 | 3.37    | 11.5            | 233          | 40.54         | 6.2 100 |

# Product details

Gross weight 102 kg

Net weight 90 kg

EAN 5702428980432

|                                            |                                      |
|--------------------------------------------|--------------------------------------|
| Approval standard                          | CE<br>UL                             |
| Brand technique                            | After sale                           |
| Capacity control                           | Fixed speed                          |
| Colour                                     | Blue                                 |
| Compressor power supply [V/Ph/Hz]          | 400/3/50 460/3/60                    |
| Configuration code                         | Single                               |
| Connection type                            | Rotolock                             |
| Description                                | SM160-4                              |
| Diameter [mm]                              | 266 mm                               |
| Discharge connection height [mm]           | 596 mm                               |
| Discharge connection mounting torque [Nm]  | 110 Nm                               |
| Discharge connection pipe size [in]        | 7/8 in                               |
| Discharge connection rotolock size [in]    | 1 3/4 in                             |
| Discharge connection size [in]             | 1 3/4 in                             |
| Discharge connection sleeve pipe size [in] | 7/8 in                               |
| Drawing number                             | 8551120b                             |
| Economizer                                 | No                                   |
| Factory HP [bar]                           | 33 bar                               |
| Factory LP [bar]                           | 25 bar                               |
| Fitting remark                             | (shipped with rotolock version only) |
| Fitting sleeve                             | ODF                                  |
| Fitting standard                           | Rotolock                             |
| Frequency [Hz]                             | 50/60                                |
| Gauge port HP                              | None                                 |
| Gauge port LP                              | Schrader                             |
| Generation code                            | C                                    |
| Glass mounting                             | Threaded                             |
| Glass torque [Nm]                          | 50 Nm                                |
| GP LP torque [Nm]                          | 15 Nm                                |
| High side max pressure (Ps)                | 30.2 bar                             |
| High Side TS Max                           | 150 °C                               |
| High Side TS Min                           | -35 °C                               |
| High Side Volume                           | 1.7 L                                |
| High value of nominal voltage at 50Hz [V]  | 400 V                                |
| High value of nominal voltage at 60Hz [V]  | 460 V                                |
| High value of voltage range at 50Hz [V]    | 440 V                                |

|                                          |                                                                 |
|------------------------------------------|-----------------------------------------------------------------|
| High value of voltage range at 60Hz [V]  | 506 V                                                           |
| IP protection class                      | IP54 (with cable gland)                                         |
| Low side max pressure (Ps)               | 25 bar                                                          |
| Low Side TS Max                          | 63 °C                                                           |
| Low Side TS Min                          | -35 °C                                                          |
| Low Side Volume                          | 16.5 L                                                          |
| Low value of nominal voltage at 50Hz [V] | 380 V                                                           |
| Low value of nominal voltage at 60Hz [V] | 460 V                                                           |
| Low value of voltage range at 50Hz [V]   | 342 V                                                           |
| Low value of voltage range at 60Hz [V]   | 414 V                                                           |
| LRA                                      | 150 A                                                           |
| Maximum Operating Current [MOC]          | 29 A                                                            |
| MMT                                      | 29 A                                                            |
| Model number                             | SM160T4RC                                                       |
| Motor protection                         | Internal thermostat, ext. overload protector needed             |
| Mounting torque [Nm]                     | 21 Nm                                                           |
| Nominal cooling capacity 60 kBTU/h       | 163.14 kBTU/h                                                   |
| Nominal cooling capacity at 50Hz         | 35.3 kW                                                         |
| Nominal cooling capacity at 60Hz         | 47.8 kW                                                         |
| Number of starts per hour [Max]          | 12                                                              |
| Oil charge [L]                           | 4 L                                                             |
| Oil drain                                | 1/4" flare                                                      |
| Oil drain torque [Nm]                    | 35 Nm                                                           |
| Oil equalization                         | 3/8" flare SAE                                                  |
| Oil equalization torque [Nm]             | 48 Nm                                                           |
| Oil reference                            | 160P                                                            |
| Oil type                                 | Mineral                                                         |
| Packaging height [mm]                    | 671 mm                                                          |
| Packaging length [mm]                    | 470 mm                                                          |
| Packaging weight [Kg]                    | 671 kg                                                          |
| Packaging width [mm]                     | 370 mm                                                          |
| Packing format                           | Single pack                                                     |
| Packing quantity                         | 1                                                               |
| Phase                                    | 3                                                               |
| Power connections                        | Screw 4.8 mm                                                    |
| Refrigerant                              | R22                                                             |
| Refrigerant charge [kg] [Max]            | 12.5 kg                                                         |
| Relief valve                             | None                                                            |
| Rotational speed at 50Hz [rpm]           | 2900 rpm                                                        |
| Rotational speed at 60Hz [rpm]           | 3500 rpm                                                        |
| Segment usage                            | Air conditioning                                                |
| Shipped fittings                         | Suction and discharge solder sleeves, rotolock nuts and gaskets |
| Shipped instructions                     | Installation instructions                                       |

|                                                                              |                                                              |
|------------------------------------------------------------------------------|--------------------------------------------------------------|
| Shipped mounting                                                             | Mounting kit with grommets, bolts, nuts, sleeves and washers |
| Shipped oil                                                                  | Initial oil charge                                           |
| Suction connection height [mm]                                               | 180 mm                                                       |
| Suction connection mounting torque [Nm]                                      | 130 Nm                                                       |
| Suction connection pipe size [in]                                            | 1 3/8 in                                                     |
| Suction connection rotolock size [in]                                        | 2 1/4 in                                                     |
| Suction connection size [in]                                                 | 2 1/4 in                                                     |
| Suction connection sleeve pipe size [in]                                     | 1 3/8 in                                                     |
| Swept volume [cm <sup>3</sup> ]                                              | 216.6 cm <sup>3</sup>                                        |
| Technology                                                                   | Scroll                                                       |
| Test dif [bar] [Max]                                                         | 24 bar                                                       |
| Test HP [bar] [Max]                                                          | 32 bar                                                       |
| Test LP [bar] [Max]                                                          | 25 bar                                                       |
| Torque earth [Nm]                                                            | 2 Nm                                                         |
| Torque Ebox cover [Nm]                                                       | 2.3 Nm                                                       |
| Torque power [Nm]                                                            | 3 Nm                                                         |
| Total height [mm]                                                            | 631 mm                                                       |
| Type                                                                         | SM                                                           |
| Type designation                                                             | Compressor                                                   |
| Viscosity [cP]                                                               | 32 cP                                                        |
| Winding resistance for three-phase compressors with identical windings [Ohm] | 0.94 Ohm                                                     |



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Mbsm.pro, Compressor, AZ1339Y, 134a,  
Replaced by, THB1340Y, 1/8 Hp,  
PTCSIR, Lbp

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UH0120006 THB1335Y 1/12 3,58 250 C 41 58 81 109 142 181 PTCSIR 220/1/50 84,7  
0,53 7,25

UH0120041 THB1340Y 1/10 4,23 250 C 49 72 99 132 170 213 PTCSIR 220/1/50 93 0,59  
9

UH0120076 THB1350Y 1/8 5,6 250 C 56 83 118 162 214 275 PTCSIR 220/1/50 108 0,71  
9

UH0120111 THB1360Y 1/6 6,1 250 C 76 105 141 185 238 300 PTCSIR 220/1/50 129 0,88  
11

UH0120146 AZ1320Y 1/15 2,95 270 C 19 32 48 69 95 125 PTCSIR 220/1/50 67,3 0,47  
7,3

UH0120181 AZ1330Y 1/12 3,6 270 C 34 51 73 99 130 166 PTCSIR 220/1/50 81,7 0,51  
6,9

UH0120216 AZ1335Y 1/10 4 250 C 41 58 81 109 142 181 PTCSIR 220/1/50 87,2 0,56 10

UH0120251 AZ1339Y 1/8 5 270 C 45 69 99 135 178 228 PTCSIR 220/1/50 102 0,72 10  
 UH0120286 AZ1348Y 1/6 5,6 250 C 59 83 116 158 209 271 PTCSIR 220/1/50 123 0,87  
 11  
 UH0120321 AZ1355Y 1/6 5,9 300 C 70 101 141 189 246 312 PTCSIR 220/1/50 127 0,87  
 11  
 UH0120356 AEZ1370Y 1/5 8,1 450 C 98 133 180 239 311 397 PTCSIR 220/1/50 172 1,19  
 11  
 UH0120391 AEZ1365Y 1/5 8,9 450 C 85 129 185 254 335 430 PTCSIR 220/1/50 181 1,20  
 10

## Highlights Fagor Compressor Az1339y-f R134a

| Modèles<br>Models | R-   | Remplacé par<br>Superseded by | R-   | Remplacé par<br>Superseded by | R- | Remplacé par<br>Superseded by | R-   |
|-------------------|------|-------------------------------|------|-------------------------------|----|-------------------------------|------|
| P1218             | 12   | AE14Z6                        | 12   | AZ1320/AD                     | 12 | AZ1320Y                       | 134a |
| P/SP1219          | 12   | AM12Z7                        | 12   | AE12W                         | 12 | AE12Z7                        | 12   |
| AZ1335Y           | 134a | THB1335Y                      | 134a |                               |    |                               |      |
| AZ1339Y           | 134a | THB1340Y                      | 134a |                               |    |                               |      |
| P/SP91            | 12   | AE8ZA7                        | 12   | AEZ1336A                      | 12 | AZ1335A/D                     | 12   |
| AE65ZD7           | 12   | XXXXXX                        |      | XXXXXX                        |    | AZ1348Y                       | 134a |

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|           |          |      |       |     |     |  |     |     |     |     |     |     |  |        |          |      |      |      |
|-----------|----------|------|-------|-----|-----|--|-----|-----|-----|-----|-----|-----|--|--------|----------|------|------|------|
| UH0120006 | THB1335Y | 1/12 | 3,58  | 250 | C   |  | 41  | 58  | 81  | 109 | 142 | 181 |  | PTCSIR | 220/1/50 | 84,7 | 0,53 | 7,25 |
| UH0120041 | THB1340Y | 1/10 | 4,23  | 250 | C   |  | 49  | 72  | 99  | 132 | 170 | 213 |  | PTCSIR | 220/1/50 | 93   | 0,59 | 9    |
| UH0120076 | THB1350Y | 1/8  | 5,6   | 250 | C   |  | 56  | 83  | 118 | 162 | 214 | 275 |  | PTCSIR | 220/1/50 | 108  | 0,71 | 9    |
| UH0120111 | THB1360Y | 1/6  | 6,1   | 250 | C   |  | 76  | 105 | 141 | 185 | 238 | 300 |  | PTCSIR | 220/1/50 | 129  | 0,88 | 11   |
| UH0120146 | AZ1320Y  | 1/15 | 2,95  | 270 | C   |  | 19  | 32  | 48  | 69  | 95  | 125 |  | PTCSIR | 220/1/50 | 67,3 | 0,47 | 7,3  |
| UH0120181 | AZ1330Y  | 1/12 | 3,6   | 270 | C   |  | 34  | 51  | 73  | 99  | 130 | 166 |  | PTCSIR | 220/1/50 | 81,7 | 0,51 | 6,9  |
| UH0120216 | AZ1335Y  | 1/10 | 4     | 250 | C   |  | 41  | 58  | 81  | 109 | 142 | 181 |  | PTCSIR | 220/1/50 | 87,2 | 0,56 | 10   |
| UH0120251 | AZ1339Y  | 1/8  | 5     | 270 | C   |  | 45  | 69  | 99  | 135 | 178 | 228 |  | PTCSIR | 220/1/50 | 102  | 0,72 | 10   |
| UH0120286 | AZ1348Y  | 1/6  | 5,6   | 250 | C   |  | 59  | 83  | 116 | 158 | 209 | 271 |  | PTCSIR | 220/1/50 | 123  | 0,87 | 11   |
| UH0120321 | AZ1355Y  | 1/6  | 5,9   | 300 | C   |  | 70  | 101 | 141 | 189 | 246 | 312 |  | PTCSIR | 220/1/50 | 127  | 0,87 | 11   |
| UH0120356 | AEZ1370Y | 1/5  | 8,1   | 450 | C   |  | 98  | 133 | 180 | 239 | 311 | 397 |  | PTCSIR | 220/1/50 | 172  | 1,19 | 11   |
| UH0120391 | AEZ1365Y | 1/5  | 8,9   | 450 | C   |  | 85  | 129 | 185 | 254 | 335 | 430 |  | PTCSIR | 220/1/50 | 181  | 1,20 | 10   |
| UH0120426 | AEZ1380Y | 1/4  | 9,4   | 450 | C   |  | 112 | 167 | 228 | 297 | 373 | 457 |  | RSIR   | 220/1/50 | 232  | 1,85 | 10   |
| UH0120461 | AEZ2380Y | 1/4  | 9,4   | 450 | C/V |  |     |     |     |     |     |     |  | CSIR   | 220/1/50 | 227  | 1,78 | 12   |
| UH0120496 | AE1410Y  | 1/4  | 12,05 | 450 | C   |  | 110 | 175 | 258 | 360 | 481 | 623 |  | RSIR   | 220/1/50 | 239  | 1,83 | 14   |
| UH0120531 | CAE2410Y | 1/4  | 12,05 | 450 | C/V |  |     |     |     |     |     |     |  | CSIR   | 220/1/50 | 239  | 1,76 | 11   |
| UH0120566 | AE1412Y  | 1/3  | 14,15 | 450 | C   |  | 115 | 201 | 304 | 426 | 567 | 728 |  | RSIR   | 220/1/50 | 273  | 1,82 | 14   |
| UH0120601 | CAE2412Y | 1/3  | 14,15 | 450 | C/V |  |     |     |     |     |     |     |  | CSIR   | 220/1/50 | 289  | 1,96 | 13   |
| UH0120636 | CAE2414Y | 1/3  | 16    | 450 | C/V |  | 121 | 188 | 275 | 382 | 515 | 676 |  | CSIR   | 220/1/50 | 334  | 2,20 | 17   |

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Please check that this part is compatible with your device model. Our customer service can advise you.

Appliance models affected:

- CB1290SI – CB1290SIH (BRANDT),
- CB195 – CB195H (BRANDT),
- CC1950 – CC1950J (BRANDT),
- CCSI1290 – CCSI1290J (BRANDT),
- CFG24N – CFG24NG (FAGOR),
- CFH24 – CFH24J (FAGOR),

- CFH24 / 1 – CFH24 / 1J (FAGOR),
- CFS15 – CFS15J (FAGOR),
- CFSA15 – CFSA15G (FAGOR),
- DUN1912B – DUN1912BA (BRANDT),
- DUN1917B – DUN1917BA (BRANDT),
- DUN2412B – DUN2412BA (BRANDT),
- DUN99B – DUN99BA (BRANDT),
- DU03666 – DU03666A (BRANDT),
- DU03676 – DU03676A (BRANDT),
- RB315 – RB315A (BRANDT),
- RB316 – RB316A (BRANDT),
- RB348 – RB348A (BRANDT),
- RB349 – RB349A (BRANDT),
- RBM355 – RBM355A (BRANDT),
- RBM356 – RBM356A (BRANDT),
- RS2180 – RS2180A (BRANDT),
- RS2180C – RS2180CA (BRANDT),
- RS6287 – RS6287A (BRANDT),
- RS6310 – RS6310A (BRANDT),
- SFB310KIT – SFB310KITA (BURNING).

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## Mbsm.pro, Compressor, Hermetic, Tecumseh, AEZ9440T, R22, 1/3 hp++, MHBP

Category: compressor

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### Basic Info.

Model NO.AEZ9440TLubrication StyleLubricatedCooling SystemAir CoolingCylinder ArrangementBalanced Opposed ArrangementCylinder PositionHorizontalStructure TypeClosed TypeCompress LevelSingle-StageRefrigerant TypeFreonTypeReciprocatingPerformanceLow NoiseDrive ModeElectricPower SourceAC PowerConfigurationStationaryMaterialCopperPiston TypeClosedTrademarkTecumseh HermetiqueTransport PackagePalletSpecificationCE / RoHsOriginChinaHS Code8414301900

### Product Description

Tecumseh Hermetique R134a / R404a/ R22 reciprocating compressor

Hermetique R22

HBP

For Air

Conditioning

Applications.

Features:

Anti Vibration

mounts supplied

Charged with  
mineral oil and  
dry nitrogen

Crankcase  
heater on TAG  
models

Fan cooling  
required on all  
models

Specifications:

Capacity Rating  
Basis: 35°C  
Ambient, 11K  
Return Gas  
Superheat,  
54.5°C  
Condensing,  
46.2°C Liquid  
entering  
Expansion  
Valve.

Current FLA are  
given at  
nominal  
voltage, rated  
conditions and  
7.2°C  
Evaporating  
Temperature.

Motor Types:

PSC = Permanent  
Split  
Capacitor, 1  
Phase, 50 Hz.  
220-240 Volt

3Ø: 3 Phase, 50  
Hz, 400 Volt

Expansion  
Device:

C = Capillary  
Tube

C/V = Capillary  
Tube or  
Expansion Valve

R22 Hermetic

| Model No.       | Nominal<br>HP   | Displ.<br>cm <sup>3</sup> /rev | Motor Type | Nominal<br>Current<br>FLA | Exp.<br>Device | Oil Charge<br>cm <sup>3</sup> | Connections:<br>inches |           |           |
|-----------------|-----------------|--------------------------------|------------|---------------------------|----------------|-------------------------------|------------------------|-----------|-----------|
| cm <sup>3</sup> | Discharge Proc. |                                |            |                           |                |                               |                        |           |           |
| AE 5465E        | 1/2             | 12.05                          | PSC        | 3.2                       | C              | 450                           | 3/8 Tube               | 1/4 Tube  | 3/8 Tube  |
| AJ 5510F        | 3/4             | 18.6                           | PSC        | 5.2                       | C              | 887                           | 3/8 Tube               | 1/4 Tube  | 1/4 Tube  |
| AJ 5512E        | 1               | 21.75                          | PSC        | 5.9                       | C              | 887                           | 3/8 Tube               | 1/4 Tube  | 1/4 Tube  |
| AJ 5513E        | 1               | 24.2                           | PSC        | 6                         | C              | 887                           | 3/8 Tube               | 1/4 Tube  | 1/4 Tube  |
| AJ 5515E        | 1 1/4           | 25.95                          | PSC        | 7.2                       | C              | 887                           | 1/2 Tube               | 5/16 Tube | 1/4 Tube  |
| AJ 5518E        | 1 1/2           | 32.7                           | PSC        | 9.3                       | C              | 887                           | 1/2 Tube               | 5/16 Tube | 1/4 Tube  |
| AJ 5519E        | 1 1/2           | 34.45                          | PSC        | 9.96                      | C              | 887                           | 1/2 Tube               | 5/16 Tube | 1/4 Tube  |
| FH 5522E        | 1 3/4           | 39.95                          | PSC        | 9                         | C              | 1330                          | 5/8 Tube               | 3/8 Tube  | 5/16 Tube |
| TFH 5522E       | 1 3/4           | 39.95                          | 3Ø         | 3.8                       | C/V            | 1330                          | 5/8 Tube               | 3/8 Tube  | 5/16 Tube |

|           |       |       |     |      |     |      |          |           |           |
|-----------|-------|-------|-----|------|-----|------|----------|-----------|-----------|
| FH 5524E  | 2     | 43.5  | PSC | 10   | C   | 1330 | 5/8 Tube | 3/8 Tube  | 5/16 Tube |
| TFH 5524E | 2     | 43.5  | 3Ø  | 4    | C/V | 1330 | 5/8 Tube | 3/8 Tube  | 5/16 Tube |
| FH 5527E  | 2 1/4 | 49.1  | PSC | 12   | C   | 1330 | 5/8 Tube | 3/8 Tube  | 5/16 Tube |
| TFH 5527E | 2 1/4 | 49.1  | 3Ø  | 4.2  | C/V | 1330 | 5/8 Tube | 3/8 Tube  | 5/16 Tube |
| FH 5531E  | 2 1/2 | 56.65 | PSC | 14.1 | C   | 1330 | 3/4 Tube | 3/8 Tube  | 5/16 Tube |
| TFH 5531E | 2 1/2 | 56.65 | 3Ø  | 8    | C/V | 1330 | 3/4 Tube | 3/8 Tube  | 5/16 Tube |
| FH5540E   | 3     | 74.25 | PSC | 18.6 | C   | 1330 | 3/4 Tube | 3/8 Tube  | 5/16 Tube |
| TFH 5540E | 3     | 74.25 | 3Ø  | 6    | C/V | 1330 | 3/4 Tube | 3/8 Tube  | 5/16 Tube |
| TFH 5540E | 3     | 74.25 | 3Ø  | 6    | C/V | 1330 | 78       | 1/2 Valve | 5/16 Tube |
| TAG 5546E | 3 3/4 | 90.2  | 3Ø  | 6.6  | C/V | 1960 | 7/8 Tube | 1/2 Tube  | 3/8 Tube  |
| TAG 5553E | 4     | 100.7 | 3Ø  | 7.4  | C/V | 1960 | 7/8 Tube | 1/2 Tube  | 3/8 Tube  |
| TAG 5561E | 5     | 112.5 | 3Ø  | 9    | C/V | 1960 | 7/8 Tube | 1/2 Tube  | 3/8 Tube  |
| TAG 5568E | 6     | 124.4 | 3Ø  | 9.6  | C/V | 1960 | 7/8 Tube | 1/2 Tube  | 3/8 Tube  |
| TAG 5573E | 6 1/2 | 134.8 | 3Ø  | 11   | C/V | 1960 | 7/8 Tube | 1/2 Tube  | 3/8 Tube  |

Hermetique R22  
M/HBP

For Medium /  
High  
Temperature  
Applications

Features:

Anti-Vibration  
mounts supplied

Charged with  
mineral oil and  
dry nitrogen

Rotalock  
suction valve  
on CAJ/TAJ  
models

Crankcase  
heater on  
FH/TFH and TAG  
models

Oil sight glass  
on FH/TFH and  
TAG models

Fan cooling  
required on all  
models

All models suit  
capillary tube  
or expansion  
valve operation

Rotalock  
suction and  
discharge  
valves on  
FH/TFH and TAG  
models

Specifications:

Capacity Rating  
 Basis: 35°C  
 Ambient, 11K  
 Return Gas  
 Superheat,  
 54.5°C  
 Condensing,  
 46°C Liquid  
 entering  
 Expansion  
 Valve.

Current FLA are  
 given at  
 nominal  
 voltage, rated  
 conditions and  
 7.2°C  
 evaporating  
 temperature.

Motor Types:

CSIR: Capacitor  
 start,  
 Induction run }  
 1 Phase, 50 Hz,  
 220-240 Volt

CSR: Capacitor  
 start and run

3Ø: 3 Phase, 50  
 Hz, 400 Volt

Conversion:  
 Watts x 3.412 =  
 BTU/Hr BTU/Hr x  
 0.293 = Watts

R22 Hermetic

| Model No. | Nominal<br>HP | Displ.<br>cm <sup>3</sup> /rev | Motor Type | Nominal Oil<br>Current Charge<br>FLA | cm <sup>3</sup> | Connections:<br>inches |           |
|-----------|---------------|--------------------------------|------------|--------------------------------------|-----------------|------------------------|-----------|
| Suction   | Discharge     |                                |            |                                      |                 |                        |           |
| AEZ 4425E | 1/5           | 4.5                            | CSIR       | 1.75                                 | 450             | 1/4 Tube               | 3/16 Tube |
| AEZ 4430E | 1/4           | 5.7                            | CSIR       | 2.2                                  | 450             | 1/4 Tube               | 3/16 Tube |
| AEZ 4440E | 1/3           | 7.55                           | CSIR       | 2.6                                  | 450             | 1/4 Tube               | 3/16 Tube |
| AEZ 9440T | 1/3           | 7.55                           | CSR        | 2.03                                 | 450             | 3/8 Tube               | 1/4 Tube  |
| CAE 4450E | 3/8           | 9.4                            | CSIR       | 3.3                                  | 450             | 3/8 Tube               | 1/4 Tube  |
| CAE 9450T | 3/8           | 9.5                            | CSR        | 2.6                                  | 450             | 3/8 Tube               | 1/4 Tube  |
| CAE 9460T | 1/2           | 11.3                           | CSR        | 3.2                                  | 450             | 3/8 Tube               | 1/4 Tube  |
| CAJ 9408T | 5/8           | 15.2                           | CSR        | 3.68                                 | 887             | 1/2 Valve              | 5/16 Tube |
| CAJ 9510T | 1             | 18.3                           | CSR        | 4.8                                  | 887             | 5/8 Valve              | 5/16 Tube |
| CAJ 9513T | 1 1/8         | 24.2                           | CSR        | 5.9                                  | 887             | 5/8 Valve              | 5/16 Tube |
| CAJ 4517E | 1 1/4         | 25.95                          | CSR        | 6.1                                  | 887             | 5/8 Valve              | 3/8 Tube  |
| TAJ 4517T | 1 1/2         | 25.95                          | 3Ø         | 2.5                                  | 887             | 5/8 Valve              | 3/8 Tube  |
| TAJ 4519T | 1 1/2         | 34.45                          | 3Ø         | 3.5                                  | 887             | 5/8 Valve              | 1/2 Valve |
| FH 4524F  | 2             | 43.5                           | CSR        | 9.55                                 | 1480            | 5/8 Valve              | 1/2 Valve |
| TFH 4524F | 2             | 4.35                           | 3Ø         | 3.9                                  | 1480            | 7/8 Valve              | 1/2 Valve |
| FH 4531F  | 2 1/2         | 56.65                          | CSR        | 12.6                                 | 1480            | 7/8 Valve              | 1/2 Valve |
| TFH4531F  | 2 1/2         | 56.65                          | 3Ø         | 4.75                                 | 1480            | 7/8 Valve              | 1/2 Valve |
| TFH 4540F | 3             | 74.25                          | 3Ø         | 6.08                                 | 1480            | 7/8 Valve              | 1/2 Valve |
| TAG 4546T | 4             | 90.2                           | 3Ø         | 6.6                                  | 1960            | 7/8 Valve              | 5/8 Valve |
| TAG 4553T | 4 1/2         | 100.7                          | 3Ø         | 7.4                                  | 1960            | 7/8 Valve              | 5/8 Valve |
| TAG 4561T | 5             | 112.5                          | 3Ø         | 9                                    | 1960            | 1 7/8 Valve            | 5/8 Valve |
| TAG 4568T | 6             | 124.4                          | 3Ø         | 9.6                                  | 1960            | 1 7/8 Valve            | 5/8 Valve |
| TAG 4573T | 6 1/2         | 134.8                          | 3Ø         | 11                                   | 1960            | 1 7/8 Valve            | 5/8 Valve |

Tecumseh  
Hermetique  
R134a  
The world  
renowned  
L'Unite  
Hermetique  
compressors are  
manufactured by  
Tecumseh.

#### Features:

Charged with  
polyolester oil  
and dry  
nitrogen

Crankcase  
heater on  
FH/TFH and TAG  
models

Oil sight glass  
on FH/TFH and  
TAG models

Rotalock valves  
are included  
for all valve  
connection  
compressors

Anti-vibration  
mounts supplied

Single Phase –  
Medium High SST

| Model No. | Nominal<br>HP | Displacement:<br>cm3/rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|--------------------------|---------|----------------------|
| CAJ4476Y  | 5/8           | 21.75                    | Fan     | 887                  |
| CAJ4492Y  | 3/9           | 25.95                    | Fan     | 887                  |
| CAJ4511Y  | 1             | 32.7                     | Fan     | 887                  |
| FH4518Y   | 1 1/2         | 53.2                     | Fan     | 1480                 |
| FH4525Y   | 2             | 74.25                    | Fan     | 1480                 |

Three Phase –  
Medium High SST

| Model No. | Nominal<br>HP | Displacement:<br>cm3/rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|--------------------------|---------|----------------------|
| TAJ4511Y  | 1             | 32.7                     | Fan     | 887                  |
| TFH4518Y  | 1 1/2         | 53.2                     | Fan     | 1480                 |
| TFH4525Y  | 2             | 74.25                    | Fan     | 1480                 |
| TAG4528Y  | 2 1/2         | 90.2                     | Fan     | 1960                 |
| TAG4534Y  | 2 3/4         | 100.7                    | Fan     | 1960                 |
| TAG4537Y  | 3             | 112.5                    | Fan     | 1960                 |
| TAG4543Y  | 3 1/2         | 124.4                    | Fan     | 1960                 |

Superceded  
Models

| Model No. | Nominal<br>HP | Displacement:<br>cm3/rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|--------------------------|---------|----------------------|
| AEZ4425Y  | 1/5           | 7.55                     | Fan     | 450                  |
| AEZ4430Y  | 1/4           | 8.85                     | Fan     | 450                  |
| CAE4440Y  | 3/8           | 12.05                    | Fan     | 450                  |
| CAE4448Y  | 1/3           | 14.15                    | Fan     | 450                  |
| CAJ4452Y  | 1/3           | 15.2                     | Fan     | 887                  |
| CAE4456Y  | 1/2           | 16                       | Fan     | 450                  |
| CAJ4461Y  | 1/2           | 18.3                     | Fan     | 887                  |

Tecumseh  
Hermetique  
R404A

The world  
renowned  
L'Unite  
Hermetique  
compressors are  
manufactured by  
Tecumseh.

Features:

Charged with  
polyolester oil  
and dry  
nitrogen

Crankcase  
heater on  
FH/TFH and TAG  
models

Oil sight glass  
on FH/TFH and  
TAG models

Rotalock valves  
are included  
for all valve  
connection  
compressors

Anti-vibration  
mounts supplied

Specifications:

Capacity Rating  
Basis: 35°C  
Ambient, 11K  
Return Gas  
Superheat,  
54.5°C  
Condensing,  
46°C Liquid  
entering  
Expansion  
Valve.

Current FLA are  
given at  
nominal  
voltage, rated  
conditions and  
7.2°C  
Evaporating  
Temperature.

Motor Types:

CSIR: Capacitor  
Start,  
Induction Run 1  
Phase, 50 Hz,  
220-240 Volt

CSR: Capacitor  
Start and Run

3Ø: 3 Phase, 50  
Hz, 400 Volt

All models are  
also suitable  
for operation  
with R507

Single Phase –  
Medium High SST

| Model No. | Nominal<br>HP | Displacement:<br>cm <sup>3</sup> /rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|---------------------------------------|---------|----------------------|
| CAJ9480Z  | 5/8           | 15.2                                  | Fan     | 887                  |
| CAJ9510Z  | 1             | 18.3                                  | Fan     | 887                  |
| CAJ9513Z  | 1 1/8         | 24.2                                  | Fan     | 887                  |
| CAJ4517Z  | 1 1/4         | 25.95                                 | Fan     | 887                  |
| CAJ4519Z  | 1 1/2         | 34.45                                 | Fan     | 887                  |
| FH4522Z   | 1 3/4         | 39.95                                 | Fan     | 1480                 |
| FH4524Z   | 2             | 43.5                                  | Fan     | 1480                 |
| FH4531Z   | 2 1/2         | 56.65                                 | Fan     | 1480                 |
| FH4540Z   | 3             | 74.25                                 | Fan     | 1480                 |

Three Phase –  
Medium High SST

| Model No. | Nominal<br>HP | Displacement:<br>cm <sup>3</sup> /rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|---------------------------------------|---------|----------------------|
| TAJ9480Z  | 5/8           | 15.2                                  | Fan     | 887                  |
| TAJ9510Z  | 1             | 18.3                                  | Fan     | 887                  |
| TAJ9513Z  | 1 1/8         | 24.2                                  | Fan     | 887                  |
| TAJ4517Z  | 1 1/4         | 25.95                                 | Fan     | 887                  |
| TAJ4519Z  | 1 1/2         | 34.45                                 | Fan     | 887                  |
| TFH4522Z  | 1 3/4         | 39.95                                 | Fan     | 1480                 |
| TFH4524Z  | 2             | 43.5                                  | Fan     | 1480                 |
| TFH4531Z  | 2 1/2         | 56.65                                 | Fan     | 1480                 |
| TFH4540Z  | 3             | 74.25                                 | Fan     | 1480                 |
| TAG4546Z  | 4             | 90.2                                  | Fan     | 1960                 |
| TAG4553Z  | 4 1/2         | 100.7                                 | Fan     | 1960                 |
| TAG4561Z  | 5             | 112.5                                 | Fan     | 1960                 |
| TAG4568Z  | 6             | 124.4                                 | Fan     | 1960                 |
| TAG4573Z  | 6 1/2         | 134.8                                 | Fan     | 1960                 |

Single Phase –  
Low SST

| Model No. | Nominal<br>HP | Displacement:<br>cm <sup>3</sup> /rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|---------------------------------------|---------|----------------------|
| CAE2417Z  | 1/3           | 11.3                                  | Fan     | 450                  |
| CAE2420Z  | 1/2           | 12.54                                 | Fan     | 450                  |
| CAE2424Z  | 5/8           | 15                                    | Fan     | 450                  |
| CAJ2428Z  | 1/2           | 15.2                                  | Fan     | 887                  |
| CAJ2432Z  | 5/8           | 18.3                                  | Fan     | 887                  |
| CAJ2446Z  | 3/4           | 26.15                                 | Fan     | 887                  |
| CAJ2464Z  | 1 1/2         | 34.45                                 | Fan     | 887                  |
| FH2480Z   | 2             | 53.2                                  | Fan     | 1625                 |
| FH2511Z   | 2 1/2         | 74.25                                 | Fan     | 1625                 |

Three Phase –  
Low SST

| Model No. | Nominal<br>HP | Displacement:<br>cm <sup>3</sup> /rev | Cooling | Oil<br>Charge:<br>ml |
|-----------|---------------|---------------------------------------|---------|----------------------|
| TAJ2464Z  | 1 1/2         | 34.45                                 | Fan     | 887                  |
| TFH2480Z  | 2             | 53.2                                  | Fan     | 1625                 |
| TFH2511Z  | 2 1/2         | 74.25                                 | Fan     | 1625                 |
| TAG2516Z  | 4             | 112.5                                 | Fan     | 1960                 |
| TAG2522Z  | 5 1/2         | 134.8                                 | Fan     | 1960                 |

Three Phase –  
Parallel  
Applications

| Model No. | Nominal HP | Displacement: cm3/rev | Application: SST | Cooling | Oil Charge: ml |
|-----------|------------|-----------------------|------------------|---------|----------------|
| TAGP4546Z | 4          | 90.2                  | Medium           | Fan     | 1960           |
| TAGP4553Z | 4 1/2      | 100.7                 | Medium           | Fan     | 1960           |
| TAGP4561Z | 5          | 112.5                 | Medium           | Fan     | 1960           |
| TAGP4568Z | 6          | 124.4                 | Medium           | Fan     | 1960           |
| TAGP4573Z | 6 1/2      | 134.8                 | Medium           | Fan     | 1960           |
| TAGP2516Z | 4          | 112.5                 | Low              | Fan     | 1960           |
| TAGP2522Z | 5 1/2      | 134.8                 | Low              | Fan     | 1960           |



# MEDIUM/HIGH BAK PRESSURE COMPRESSORS

| Type   | COMPRESSOR MODELS    | Nominal Power (H.P.) |                    |                  |                         | REFRIGERATION CAPACITY AT 50HZ<br>Rafed 54.5°C Cond Temp (Watts) |        |      |         |        |      | VOLTAGE                         |
|--------|----------------------|----------------------|--------------------|------------------|-------------------------|------------------------------------------------------------------|--------|------|---------|--------|------|---------------------------------|
|        |                      | Refrigerant          | Displacement (cm³) | Oil charge (cm3) | Evaporating Temperature |                                                                  |        |      |         |        |      |                                 |
|        |                      |                      |                    |                  | -25°C.                  | -15°C.                                                           | -10°C. | 0°C. | +7.2°C. | +15°C. |      |                                 |
|        |                      |                      |                    |                  |                         |                                                                  |        |      |         |        |      |                                 |
| PISTON | AEZ4425E             | 1/5                  | R22                | 4.50             | 250                     | 138                                                              | 192    | 256  | 413     | 553    | 728  | 220-240V/1/50Hz                 |
|        | AEZ4430E             | 1/4                  | R22                | 5.70             | 250                     | 192                                                              | 255    | 336  | 538     | 718    | 945  | 220-240V/1/50Hz                 |
|        | AEZ3440E             | 1/3                  | R22                | 7.55             | 350                     | 308                                                              | 362    | 464  | 733     | 980    | 1298 | 220-240V/1/50Hz                 |
|        | AEZ4440E             | 1/3                  | R22                | 7.55             | 350                     | 308                                                              | 362    | 464  | 733     | 980    | 1298 | 220-240V/1/50Hz                 |
|        | AEZ9440T             | 1/3                  | R22                | 7.55             | 350                     | 222                                                              | 362    | 464  | 733     | 975    | 1302 | 220-240V/1/50Hz                 |
|        | CAE4450E             | 3/7                  | R22                | 9.40             | 350                     | 355                                                              | 426    | 554  | 896     | 1212   | 1623 | 220-240V/1/50Hz                 |
|        | CAE9450T             | 3/7                  | R22                | 9.40             | 350                     | 256                                                              | 426    | 554  | 896     | 1212   | 1623 | 220-240V/1/50Hz                 |
|        | CAE9460T             | 1/2                  | R22                | 11.30            | 350                     | 324                                                              | 553    | 715  | 1134    | 1514   | 2000 | 220-240V/1/50Hz                 |
|        | CAJ9480T<br>TAJ9480T | 5/8                  | R22                | 15.20            | 887                     | 461                                                              | 786    | 1011 | 1586    | 2103   | 2761 | 220-240V/1/50Hz+<br>400V/3/50Hz |
|        | CAJ9510T<br>TAJ9510T | 1                    | R22                | 18.30            | 887                     | 545                                                              | 956    | 1229 | 1909    | 2510   | 3266 | 220-240V/1/50Hz+<br>400V/3/50Hz |
|        | CAJ9513T<br>TAJ9513T | 1-1/8                | R22                | 24.20            | 887                     | 526                                                              | 1074   | 1451 | 2411    | 3272   | 4366 | 220-240V/1/50Hz+<br>400V/3/50Hz |
|        | CAJ4517E<br>TAJ4517T | 1-1/4                | R22                | 25.95            | 887                     | 771                                                              | 1233   | 1673 | 2727    | 3629   | 4743 | 220-240V/1/50Hz+<br>400V/3/50Hz |





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# Mbsm.pro, Motor, compressor, type, RSIR, RSCR, CSIR, CSCR, PSC

Category: compressor

written by [www.mbsm.pro](http://www.mbsm.pro) | 5 January 2022

(1) RSIR

Resistance start induction run

(2) RSCR

Resistance start capacitor run

(3) CSIR

Capacitor start induction run

(4) CSCR/CSR

Capacitor start capacitor run

(5) PSC

Permanent split capacitor

(1) RSIR

Resistance start induction run

(2) RSCR

Resistance start capacitor run

(3) CSIR

Capacitor start induction run

(4) CSCR/CSR

Capacitor start capacitor run

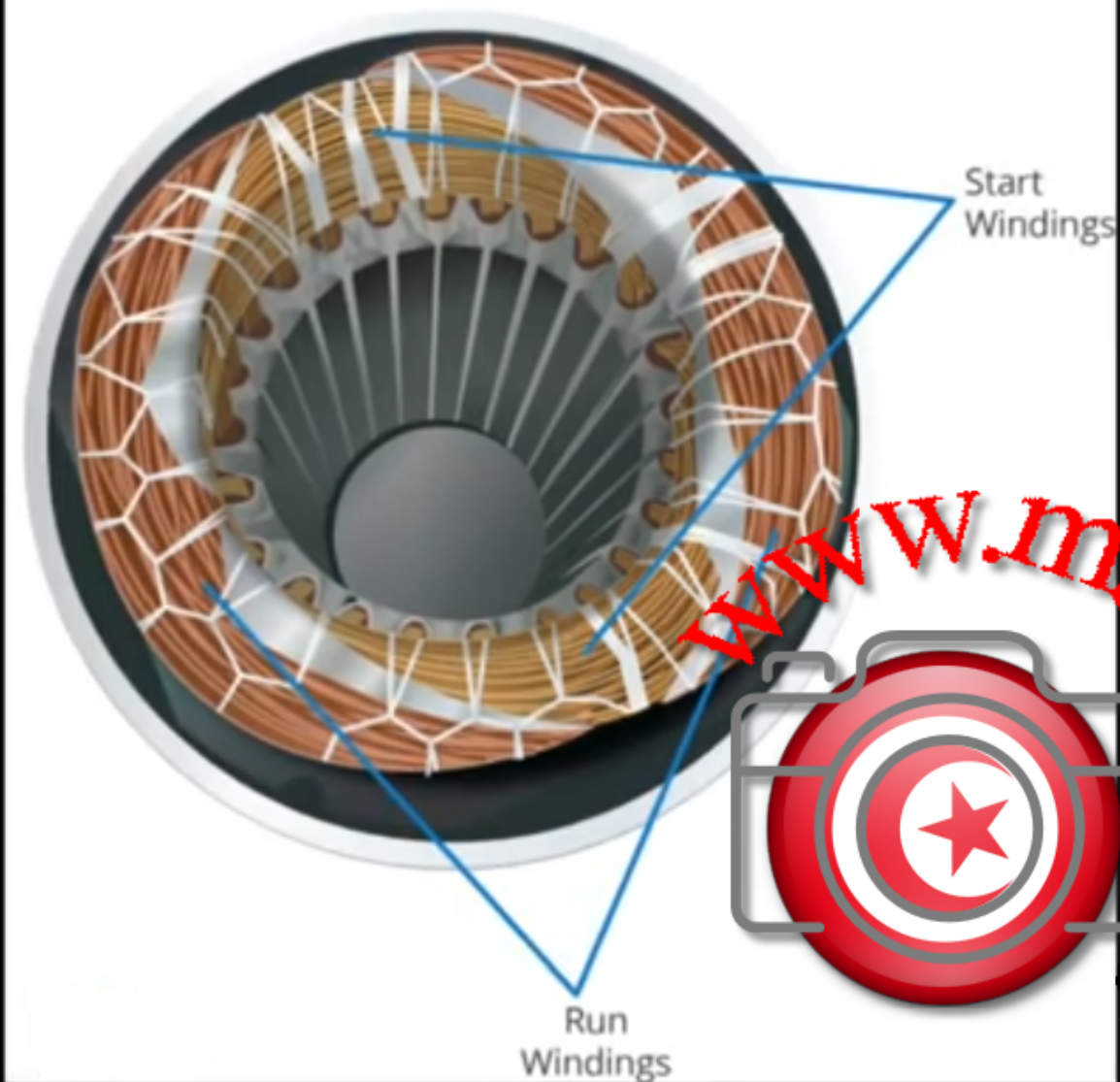
(5) PSC

Permanent split capacitor

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# Compressor Windings



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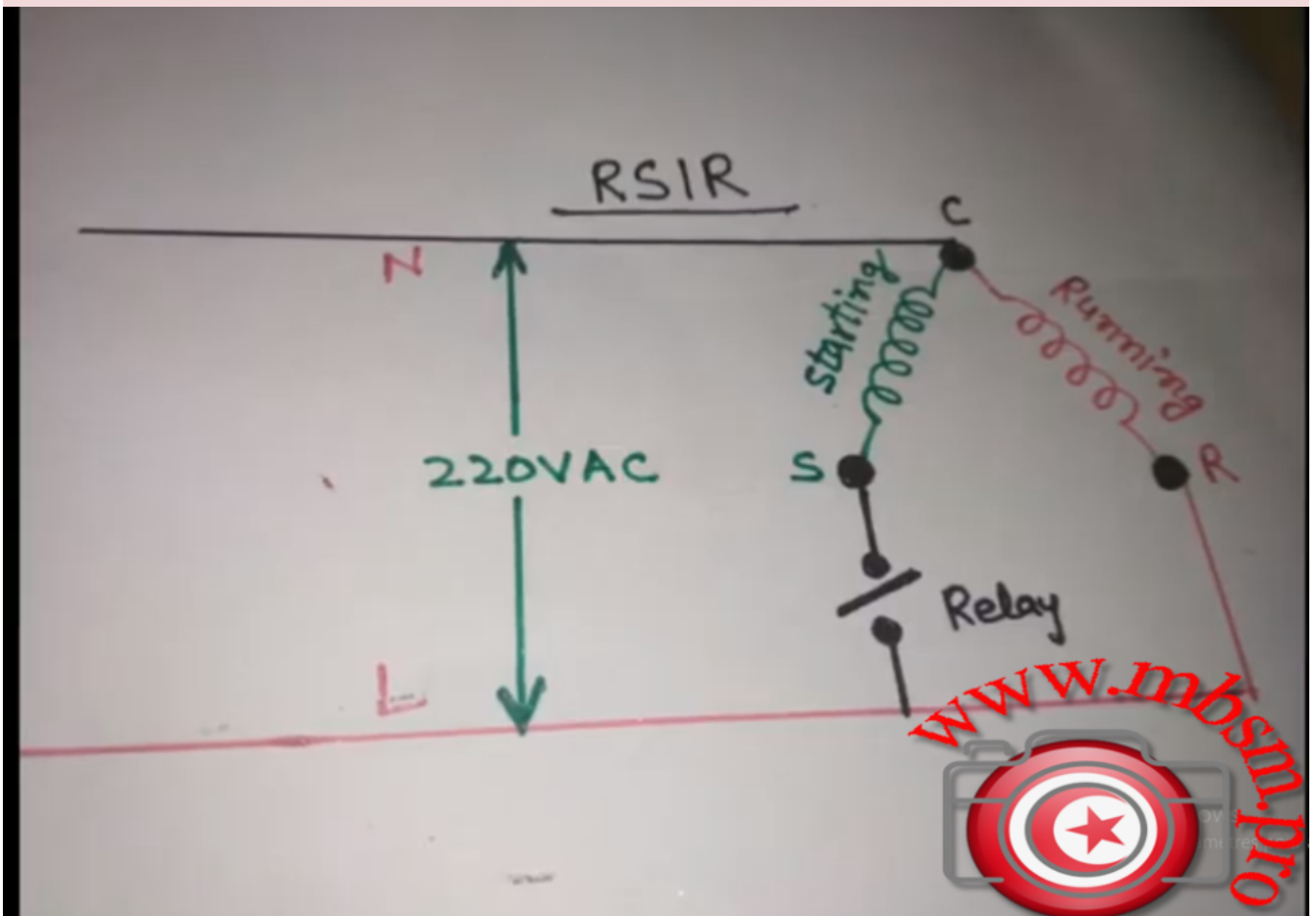
[www.mbsm.pro](http://www.mbsm.pro) (1) RSIR  
Resistance start induction run

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# RSIR



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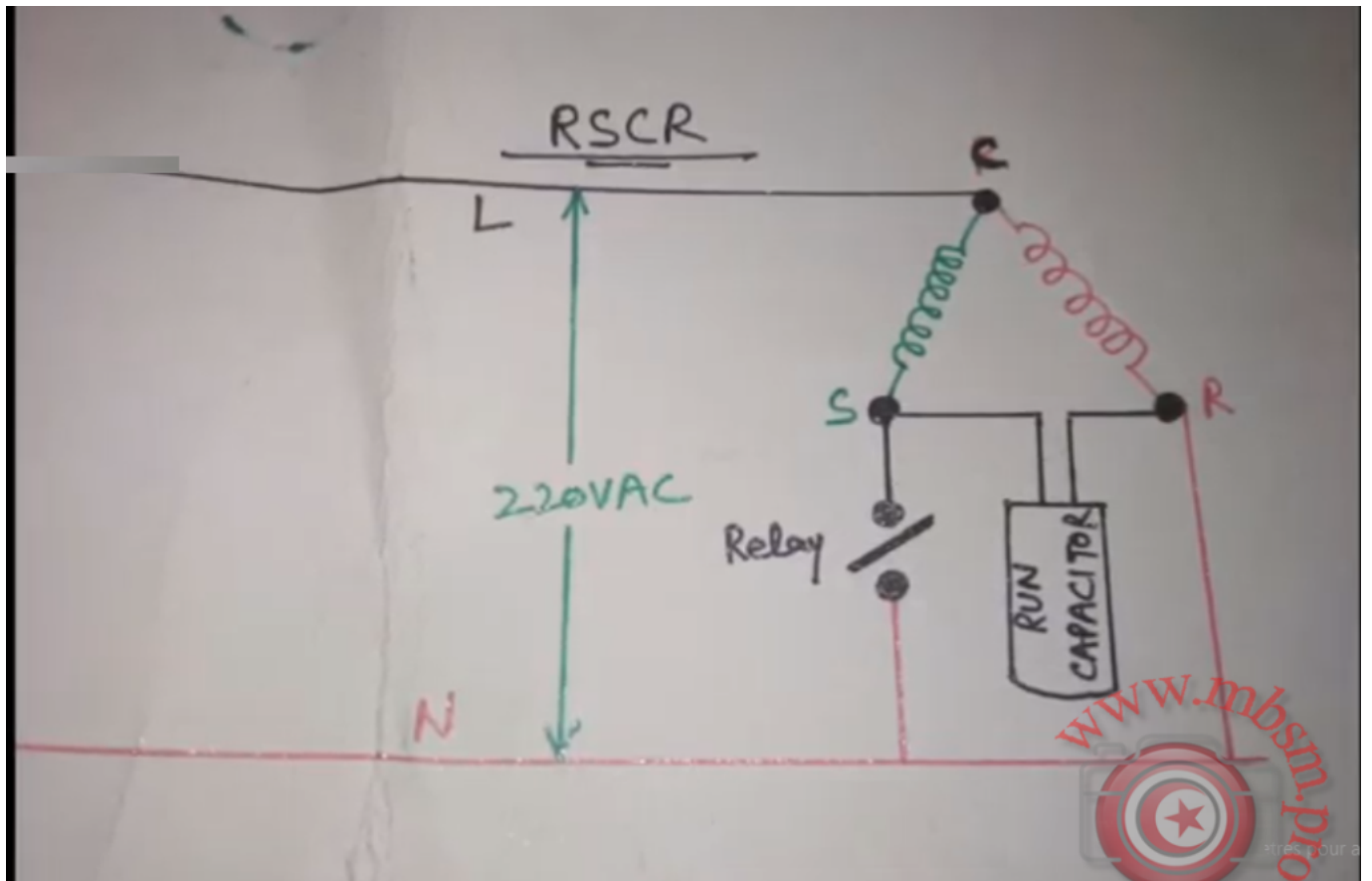
## (2) RSCR Resistance start capacitor run

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# RSCR



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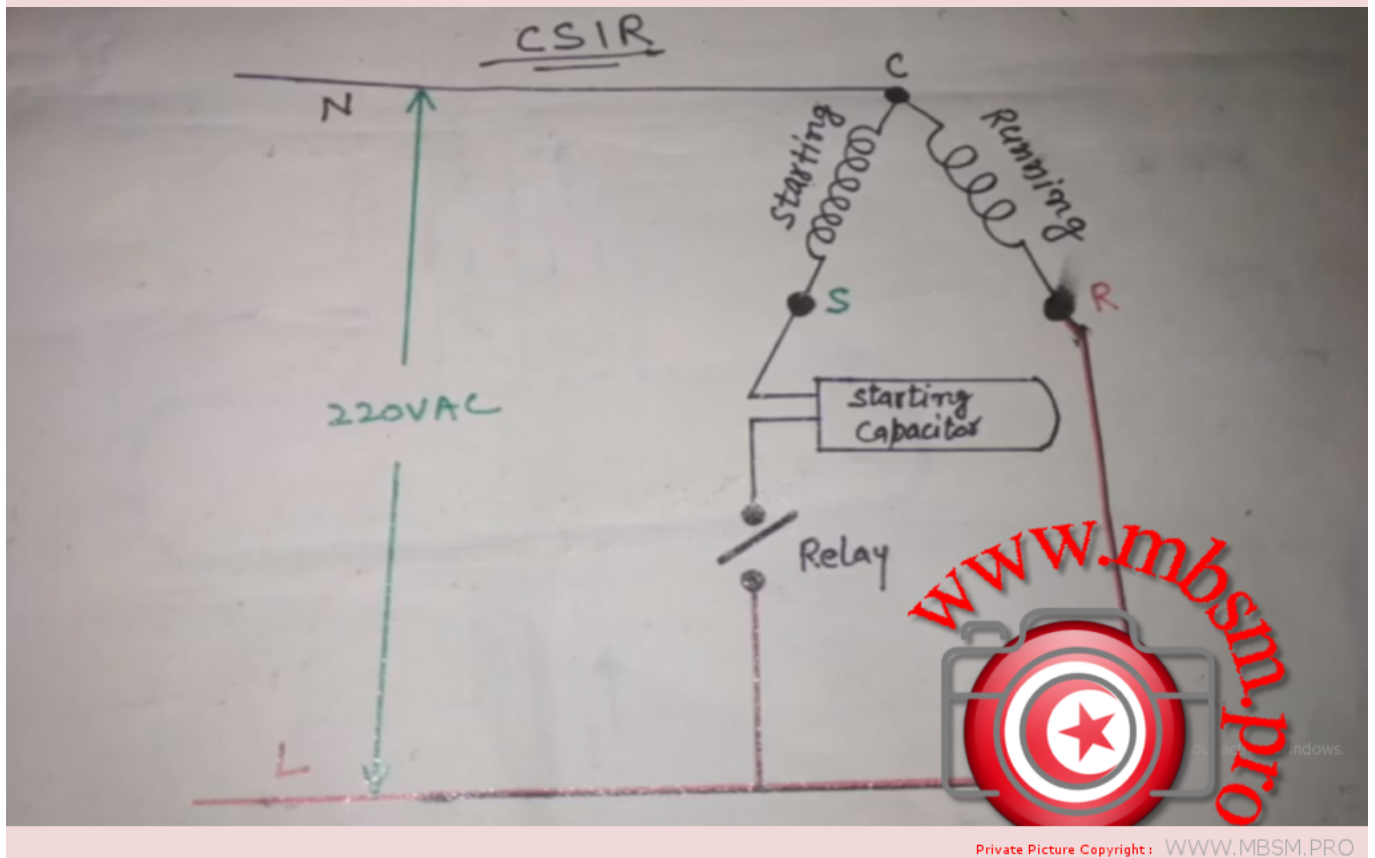
# (3) CSIR Capacitor start induction run

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# CSIR



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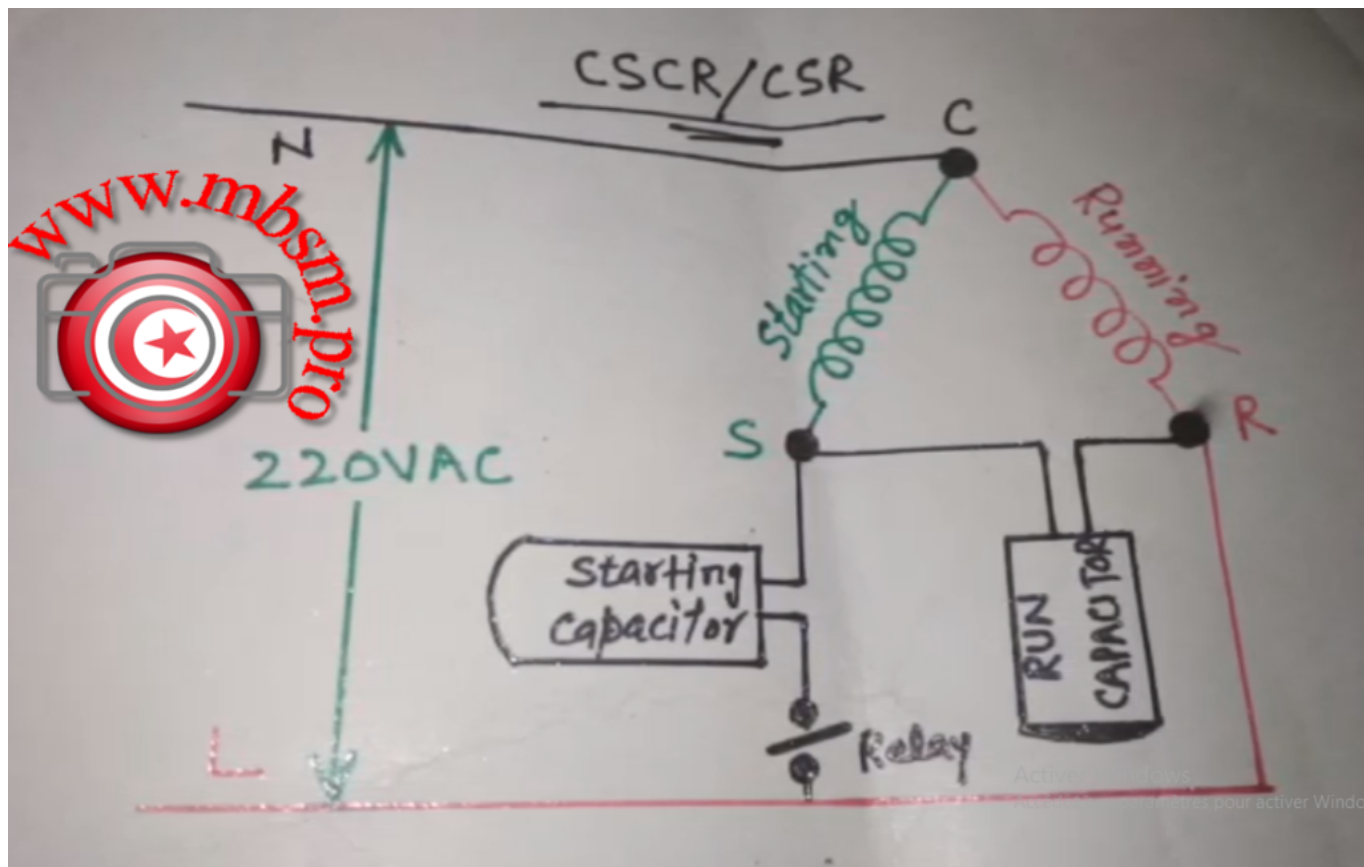
# (4) CSCR/CSR Capacitor start capacitor run

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## CSCR/CSR



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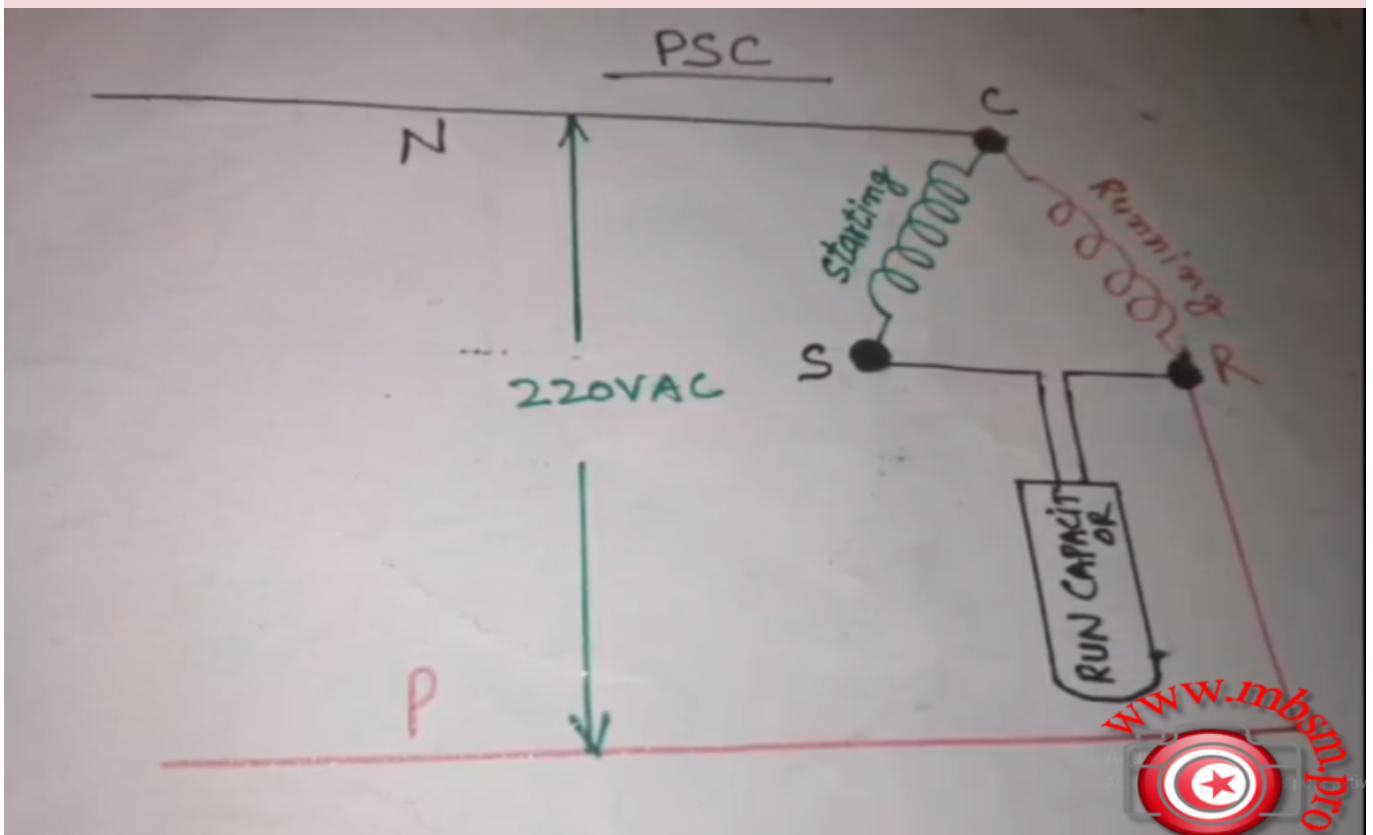
# (5) PSC Permanent split capacitor

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# PSC



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# Mbsm.pro, Compressor, EMBRACO, NBM1119Y, Indesit, Ariston, ASPERA, R600, 1/3 HP, 237W, LBP

Category: compressor

written by [www.mbsm.pro](http://www.mbsm.pro) | 5 January 2022

|                      |                                 |
|----------------------|---------------------------------|
| Compressor           | EMBRACO                         |
| Template             | NBM1119Y                        |
| Height (mm)          |                                 |
| Gas                  | R600a                           |
| Voltage              | 200-240V 50Hz / 230V 60Hz       |
| Application          | LBP (Low Back Pressure)         |
| Test Condition       | ASHRAE LBP 32                   |
| Displacement         | 14.28 of the Italian Civil Code |
| Motor                | RSIR                            |
| Power (HP)           |                                 |
| Cap. Frigor. Watt    | 233                             |
| Cap. Frigor. Kcal    | 200                             |
| Cap. Frigor. Btu / h | 795                             |
| COP (W / W)          | 1.44                            |
| Watt absorbed (W)    |                                 |
| Device of Avv.       | PTC                             |
| Capacitor            |                                 |
| Cooling type         |                                 |

Packaging (Pcs / Pallet)



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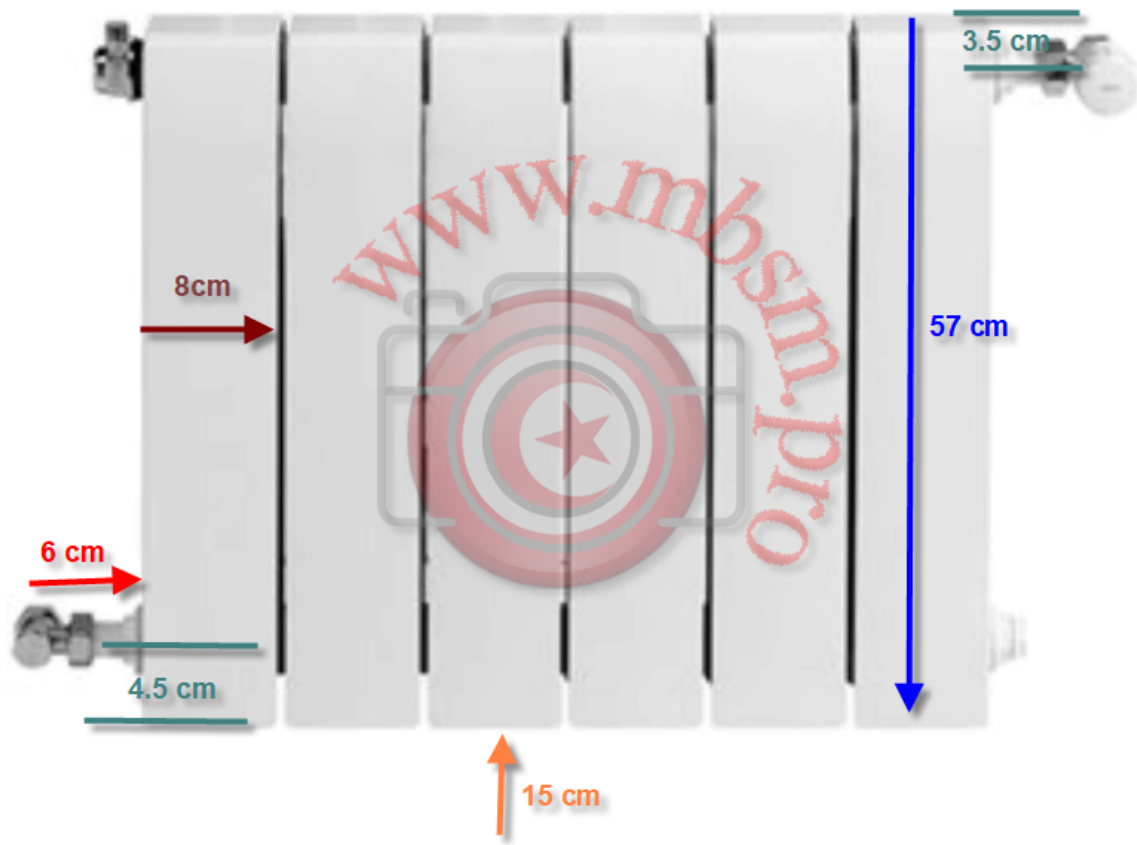
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Mbsm.pro, Auminum, radiators,  
Baxi, 57 cm high, 8 cm wide and 7 cm  
thick, with a calorific power 104 W/  
Element , dimension and measure

Category: Chaud&Froid,Pictures,Plomberie  
written by [www.mbsm.pro](http://www.mbsm.pro) | 5 January 2022



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# Radiator

Aluminum **radiators** 57 cm high, 8 cm wide and 7 cm thick, with a calorific power 104 W

Mbsm\_dot\_pro\_private\_PDF\_Aluminum-radiators-Baxi-57-cm-high-8-cm-wide-and-7-cm-thick-with-a-calorific-power-104-W-Element-dimension-and-measureTélécharger



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Calculation of heating capacity in terms of room volume

First, we calculate the volume of the room by multiplying the length by the width by

Height :

Example: A room whose dimensions are (3.6 m) length (3.25 m) width (2.6 m) height means its size is  $3.6 \times 3.25 \times 2.6 = 30.42 \text{ m}^3$  In most cases, buildings in Algeria have external walls that do not have an insulating material for cold and heat, so we must multiply the volume The room in (2) and if it is isolated, we multiply by (1).

As it is known, the temperature and cold changes from one region to another. For example, the average cold in the high plateaus reaches minus 5 sometimes at night, while in the north of the country, the average cold may reach 5 degrees

in the worst case, and the appropriate temperature in the house is from 20 to 22 degrees, meaning that the difference in degrees In the capital, the temperature is 22 minus 3, which is equal to 19 degrees, and in the higher plateaus the difference is 22 minus -5, which is equal to 27 degrees. We multiply the room volume by the insulation coefficient, if it is 1 and if not 2, then we multiply the volume of the room by 2 by the temperature difference in our previous example. The room is 30.42 The insulation coefficient is 2 The temperature difference is 19. When we multiply the volume by the coefficient by the temperature difference, we get  $30.42 \times 2 \times 19 = 115.96$  for the northern regions and  $30.42 \times 2 \times 27 = 1642.68$  for the high plateaus.

Since the calorific value of each radiator element varies according to type, material and size, in all our calculations for an aluminum radiator, the approximate heat value is 150. If we divide what we get by 150, we get the number of units, i.e.  $1155.96 \div 150 = 7.7$  meaning that the required radiator is 8 elements For a room in the north of the country, and for a room in the high hills,  $1642.68 \div 150 = 10.95$ , meaning that the required radiator is 11 or 12 elements.

حساب قدرة التدفئة من حيث حجم الغرفة  
أولا نحسب حجم الغرفة وهذا بضرب الطول في العرض في  
الإرتفاع :

مثال : غرفة أبعادها هم (3.6م) طول (3.25م) عرض (2.6 م) إرتفاع يعني حجمها هو  $30.42 = 2.6 \times 3.25 \times 3.6$  في غالب الأحيان البناءات في الجزائر جدرانها الخارجية ليست لديها مادة عازلة للبرد والحرارة لذا وجب ان نضرب حجم الغرفة في (2) وإن كانت معزولة نضرب في (1).

كما هو معروف تتغير درجة الحرارة والبرودة من منطقة لأخرى فمثلا يصل معدل البرودة في الهضاب العليا إلى ناقص 5 أحيانا بالليل بينما في شمال الوطن فمعدل البرودة قد يصل إلى 5 درجات في أسوأ الأحوال والحرارة المناسبة في المنزل هي من 20 إلى 22 درجة أي أن الفارق في درجة الحرارة في العاصمة هو 22 ناقص 3 ويساوي 19 درجة وفي الهضاب العليا الفرق هو 22 ناقص -5 ويساوي 27 درجة نضرب حجم الغرفة في معامل العزل إن كان موجود 1 وإن لم يكن 2 إذن نضرب حجم الغرفة في 2 في فرق درجة الحرارة في مثالنا السابق لدينا حجم الغرفة هو 30.42 معامل العزل هو 2 فرق درجة الحرارة هو 19 لما نضرب الحجم في المعامل في فرق الحرارة نحصل  $1155.96 = 19 \times 2 \times 30.42$  بالنسبة للمناطق الشمالية و  $1642.68 = 27 \times 2 \times 30.42$  بالنسبة للهضاب العليا .

بما أن القيمة الحرارية لكل عنصر من الرادياتور تختلف حسب النوع والمادة والحجم الى أنه في جميع حساباتنا بالنسبة لرادياتور ألومنيوم القيمة الحرارية التقريبية هي 150 إذا نقسم ما حصلنا عليه على 150 فنحصل على عدد الوحدات أي  $7.7 = 1155.96 \div 150$  بمعنى أن الرادياتور المطلوب هو 8 عناصر بالنسبة لغرفة في شمال الوطن و أما بالنسبة لغرفة في الهضاب العليا  $10.95 = 1642.68 \div 150$  أي أن الرادياتور المطلوب هو 11 عنصر أو 12 عنصر.

Calcul de la capacité de chauffage en fonction du volume de la pièce

Tout d'abord, nous calculons le volume de la pièce en multipliant la longueur par la largeur par  
Hauteur :

Exemple : Une pièce dont les dimensions sont (3,6 m) longueur (3,25 m) largeur (2,6 m) hauteur signifie que sa taille est de  $3,6 \times 3,25 \times 2,6 = 30,42 \text{ m}^3$  Dans la plupart des cas, les bâtiments en Algérie ont des murs extérieurs qui n'ont pas de matériau isolant pour le froid et le chaud, il faut donc multiplier le volume La pièce en (2) et si elle est isolée, on multiplie par (1).

Comme on le sait, la température et le froid varient d'une région à l'autre. Par exemple, le froid moyen dans les hauts plateaux atteint parfois moins 5 la nuit,

tandis que dans le nord du pays, le froid moyen peut atteindre 5 degrés dans les pire des cas, et la température appropriée dans la maison est de 20 à 22 degrés, ce qui signifie que la différence en degrés Dans la capitale, la température est de 22 moins 3, ce qui est égal à 19 degrés, et dans les plateaux supérieurs la différence est de 22 moins -5, ce qui est égal à 27 degrés. On multiplie le volume de la pièce par le coefficient d'isolation, s'il est de 1 et sinon 2, alors on multiplie le volume de la pièce par 2 par la différence de température dans notre exemple précédent. pièce est de 30,42 Le coefficient d'isolation est de 2 La différence de température est de 19. Quand on multiplie le volume par le coefficient par la différence de température, on obtient  $30,42 \times 2 \times 19 = 115,96$  pour les régions du nord et  $30,42 \times 2 \times 27 = 1642,68$  pour la hauts plateaux. Étant donné que la valeur calorifique de chaque élément de radiateur varie selon le type, le matériau et la taille, dans tous nos calculs pour un radiateur en aluminium, la valeur calorifique approximative est de 150. Si nous divisons ce que nous obtenons par 150, nous obtenons le nombre d'unités, c'est-à-dire  $115,96 / 150 = 7,7$  signifiant que le radiateur requis est de 8 éléments Pour une pièce au nord du pays, et pour une pièce dans les hautes collines,  $1642,68 / 150 = 10,95$ , c'est-à-dire que le radiateur requis est de 11 ou 12 éléments.

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## Mbsm.pro, Compressor, ELECTROLUX, 3/4 Hp ++ (big), R-12, S26TY, HMBP

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Commercial R12 – Medium Suction Temperature

| Capacity<br>range<br>(watts) | Aspera | Kirby   | Old<br>Kirby<br>Model | Danfoss        | L'Unite<br>Hermetique | Unidad<br>Electrolux | Kelvinator      | Necchi     | Bulkon |
|------------------------------|--------|---------|-----------------------|----------------|-----------------------|----------------------|-----------------|------------|--------|
| 201-250                      |        | AE6LMY  | AE67ZD7<br>AE6LMA     | TL4B           |                       | L57PX                | S88ND           | M4J        |        |
| 250-300                      |        |         |                       |                |                       |                      |                 | M5J        |        |
| 301-350                      | A5144A | AE8MG   | AE59ZF9<br>AE8LMA     |                |                       |                      |                 |            |        |
| 351-400                      |        | AE9MHY  | AE4425A<br>AE9MHA     | FR6B           | CAE59ZF9              | L76PX                |                 | M7J        |        |
| 401-450                      | A5160A |         |                       | FR7.5B         |                       | L68TY                | S54FD           |            |        |
| 450-500                      | A6170A | AEV9LMY | AE7416A<br>AE10LMA    | FR8.5B         | CAE41ZF11             | L88TX                | S44ND           | M9J        |        |
| 501-550                      |        |         |                       |                |                       |                      | S54FD<br>S44CFD | M11,<br>A9 |        |
| 551-600                      | T6185A | AE12LMY | AE12LJ                | FR10B          | CAE4440A              | P12TY                | S33FD<br>S33TF  |            |        |
| 601-650                      | E6187A |         |                       | FR11B<br>SC10B |                       |                      |                 |            |        |
| 651-700                      |        | AE14LMY | AE7423A<br>AE14LMA    |                |                       | P14TY                |                 |            | KB14B1 |
| 701-800                      | T6213A |         |                       | SC12B          | CAJ4452A              |                      |                 | A13        |        |
| 801-900                      |        | AE16LMY | AE16LMA<br>AE16LJ     | SC15B          |                       |                      |                 | N17        | KB19B1 |
| 901-1000                     |        | AJ18MY  | AJ7428A               |                |                       |                      |                 |            | KB19B1 |
| 1001-1200                    | T6215A | AJ22LMY | AJ7434A<br>AJ22LJ     | SC18B          | CAJ4461A              | S18TY                | S5050FDH        |            | KB23B1 |
| 1201-1400                    | J6220A | AJ26LMY | AJ7445A<br>AJ26LJ     | SC21B          |                       | S26TY                | S7575FDH        |            | KB26B1 |
| 1401-2000                    | J6226A | AJ34LMY | AJ7457A<br>AJ34LJ     |                | CAJ4511A              | S34TY                | S1010FDH        |            | KB37B1 |
| 2001-2500                    | H6238A | AH49MHY | AH4514A               |                | CAH4518A<br>TAH4518A  |                      |                 |            |        |
| 2501-3500                    | H6253A | AH74MHY | AH4521A               |                | CAH4524A<br>TAH4524A  |                      |                 |            |        |



| HMBP                    |     |   |       |             |      |      |      |      |        |        |     |              |      |      |   |
|-------------------------|-----|---|-------|-------------|------|------|------|------|--------|--------|-----|--------------|------|------|---|
| R12<br>50 Hz            |     |   |       | CECOMAF (W) |      |      |      |      |        | ASHRAE |     | R12<br>50 Hz |      |      |   |
|                         |     |   |       | -25         | -15  | 5    |      | 10   | 7.2    |        |     |              |      |      |   |
|                         |     |   |       |             |      | W    | COP  |      | kcal/h | COP    |     |              |      |      |   |
| 220-240V 50Hz ~I        |     |   |       |             |      |      |      |      |        |        |     |              |      |      |   |
| L45PX                   | 1/6 | F | 4.50  | 77          | 131  | 325  | 1.68 | 391  | 330    | 1.91   | C   | 300          | 8.4  | RSIR | R |
| L57PX                   | 1/5 | F | 5.67  | 97          | 171  | 422  | 1.84 | 505  | 427    | 2.10   | C   | 300          | 9.5  | RSIR | R |
| L76TX                   | 1/5 | F | 7.57  | 131         | 223  | 545  | 1.84 | 654  | 553    | 2.07   | C-V | 300          | 9.5  | CSIR | R |
| L88TY                   | 1/4 | F | 8.85  | 165         | 276  | 646  | 1.87 | 768  | 652    | 2.11   | C-V | 300          | 10.0 | CSIR | R |
| P12TY                   | 3/8 | F | 12.00 | 209         | 356  | 871  | 1.82 | 1044 | 882    | 2.05   | C-V | 400          | 11.2 | CSIR | R |
| P14TY                   | 3/8 | F | 14.00 | 242         | 412  | 985  | 1.73 | 1176 | 996    | 1.96   | C-V | 400          | 11.5 | CSIR | R |
| R18TY                   | 1/2 | F | 18.10 | 277         | 533  | 1328 | 2.02 | 1586 | 1343   | 2.30   | C-V | 640          | 19.9 | CSIR | R |
| X18TY                   | 1/2 | F | 18.40 | 322         | 544  | 1323 | 1.95 | 1587 | 1340   | 2.20   | C-V | 500          | 16.1 | CSIR | R |
| S26TY                   | 3/4 | F | 25.93 | 391         | 770  | 1933 | 2.01 | 2307 | 1955   | 2.29   | C-V | 887          | 22.7 | CSIR | R |
| S34TY                   | I   | F | 34.42 | 643         | 1171 | 2752 | 2.31 | 3255 | 2771   | 2.60   | C-V | 887          | 22.7 | CSR  | R |
| 200-220/230V 50/60Hz ~I |     |   |       |             |      |      |      |      |        |        |     |              |      |      |   |
| L45PX                   | 1/6 | F | 4.50  | 77          | 131  | 325  | 1.59 | 391  | 330    | 1.79   | C   | 300          | 8.4  | RSIR | R |
| L57PX                   | 1/5 | F | 5.67  | 97          | 173  | 389  | 1.75 | 456  | 390    | 1.96   | C   | 300          | 9.5  | RSIR | R |
| S18TY                   | 1/2 | F | 18.10 | 277         | 533  | 1329 | 1.99 | 1586 | 1344   | 2.26   | C-V | 887          | 21.8 | CSIR | R |
| X18TY                   | 1/2 | F | 18.40 | 322         | 544  | 1323 | 1.93 | 1587 | 1340   | 2.18   | C-V | 500          | 16.1 | CSIR | R |
| S26TY                   | 3/4 | F | 25.93 | 391         | 770  | 1933 | 2.00 | 2307 | 1954   | 2.27   | C-V | 887          | 22.7 | CSIR | R |
| S34TY                   | I   | F | 34.42 | 643         | 1171 | 2752 | 2.27 | 3255 | 2770   | 2.58   | C-V | 887          | 22.7 | CSR  | R |

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