

### COMPRESSOR DEFINITION

|                           |                    |
|---------------------------|--------------------|
| Designation               | EM 2X3121U         |
| Nominal Voltage/Frequency | 220-240 V 50-60 Hz |
| Engineering Number        | 513304098          |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |  |                                   |              |
|------------------------------------|--|-----------------------------------|--------------|
| 1 Type                             | Hermetic reciprocating compressor                                  |                                   |              |
| 2 Refrigerant                      | R-290  |                                   |              |
| 3 Nominal voltage and frequency    | 220-240 / 50-60  | [ V / Hz ]                        |              |
| 4 Application type                 | Low-Medium Back Pressure (Light Commercial - Curves until T.Evap - |                                   |              |
| 4.1 Evaporating temperature range  | -40°C to 0°C   | (-40°F to 32°F)                   |              |
| 5 Motor type                       | RSCR   |                                   |              |
| 6 Starting torque                  | LST - Low Starting Torque  |                                   |              |
| 7 Expansion device                 | Capillary tube   |                                   |              |
| 8 Compressor cooling               |  | Operating voltage range           |              |
|                                    |  | 50 Hz                             | 60 Hz        |
| 8.1 LBP (32°C Ambient temperature) | Static/Fan   | 198 to 255 V                      | 198 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | Static/Fan   | 198 to 255 V                      | 198 to 255 V |
| 8.3 HBP (32°C Ambient temperature) | -  | -                                 | -            |
| 8.4 HBP (43°C Ambient temperature) | -  | -                                 | -            |
| 9 Maximum condensing temperature   |  |                                   |              |
| 9.1 Operating                      | 18.4   | [kgf/cm <sup>2</sup> ] (262 psig) | / °C - °F    |
| 9.2 Peak                           | 20.6   | [kgf/cm <sup>2</sup> ] (293 psig) | / °C - °F    |
| 10 Maximum winding temperature     | 130  | [ °C ]                            |              |

### B - MECHANICAL DATA

|                               |               |                                  |
|-------------------------------|---------------|----------------------------------|
| 1 Commercial designation      | 1/3           | [hp]                             |
| 2 Displacement                | 5.54          | [cm <sup>3</sup> ] (0.338 cu.in) |
| 2.1 Bore [mm]                 | 21.000        |                                  |
| 2.2 Stroke [mm]               | 16.000        |                                  |
| 3 Lubricant charge            | 180           | [ml] (6.09 fl.oz.)               |
| 3.1 Lubricants approved       |               |                                  |
| 3.2 Lubricants type/viscosity | ESTER / ISO22 |                                  |
| 4 Weight (with oil charge)    | 8.05          | [kg] (17.75 lb.)                 |
| 5 Nitrogen charge             | -             | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|  |  |                                    |
|--|--|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 220-240 V 50-60 Hz 1 ~ (Single phase)          |                                    |
| 2 Starting device type                       | PTC  |                                    |
| 2.1 Starting device                          | 8EA17C3/8EA17E61/8EA17E62/8EA17E63/QPS2-A22MD3 |                                    |
| 3 Start capacitor                            | -  | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | 5(450)   | [µF(VAC minimum)]                  |
| 5 Motor protection                           | 4TM232RFBYY-53                                 |                                    |
| 6 Start winding resistance                   | 20.68  | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 14.06  | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (50/60 Hz)     | 8.10/7.50                                      | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50/60 Hz)  | 1.00/0.72                                      | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50/60 Hz)   | 1.29/0.98                                      | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CE - IRAM - TUV - UKCA                         |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                               |          |     |                             |                               |  |                           |  |       |  |
|-------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS:<br>@220V50Hz |          |     | ASHRAELBP32<br>Static       |                               | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |  |
| Cooling capacity<br>+/- 5%    |          |     | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                            | EFFICIENCY RATE<br>+/- 7% |  |       |  |
| [Btu/h]                       | [kcal/h] | [W] | [W]                         | [A]                           | [kg/h]   | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |  |
| 961                           | 242      | 282 | 164                         | 0.83                          | 2.86   | 5.86                      | 1.48                                   | 1.72  |  |

|                               |          |     |                             |                               |  |                           |  |       |  |
|-------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS:<br>@220V50Hz |          |     | ASHRAELBP32<br>Fan          |                               | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |  |
| Cooling capacity<br>+/- 5%    |          |     | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                            | EFFICIENCY RATE<br>+/- 7% |  |       |  |
| [Btu/h]                       | [kcal/h] | [W] | [W]                         | [A]                           | [kg/h]   | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |  |
| 988                           | 249      | 290 | 165                         | 0.84                          | 2.94   | 5.99                      | 1.51                                   | 1.76  |  |

|                               |          |     |                             |                               |  |                           |  |       |  |
|-------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS:<br>@220V60Hz |          |     | ASHRAELBP32<br>Static       |                               | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |  |
| Cooling capacity<br>+/- 5%    |          |     | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                            | EFFICIENCY RATE<br>+/- 7% |  |       |  |
| [Btu/h]                       | [kcal/h] | [W] | [W]                         | [A]                           | [kg/h]   | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |  |
| 1169                          | 295      | 343 | 192                         | 0.88                          | 3.48   | 6.09                      | 1.53                                   | 1.78  |  |

|                               |          |     |                             |                               |  |                           |  |       |  |
|-------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS:<br>@220V60Hz |          |     | ASHRAELBP32<br>Fan          |                               | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |  |
| Cooling capacity<br>+/- 5%    |          |     | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                            | EFFICIENCY RATE<br>+/- 7% |  |       |  |
| [Btu/h]                       | [kcal/h] | [W] | [W]                         | [A]                           | [kg/h]   | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |  |
| 1199                          | 302      | 351 | 193                         | 0.89                          | 3.57   | 6.21                      | 1.56                                   | 1.82  |  |

### E - PERFORMANCE - CURVES

|                               |                            |                    |         |                             |                               |                         |  |        |          |           |
|-------------------------------|----------------------------|--------------------|---------|-----------------------------|-------------------------------|-------------------------|--|--------|----------|-----------|
| TEST CONDITIONS:<br>@220V50Hz |                            | ASHRAE32<br>Static |         |                             |                               |                         | (Condensing temperature 35°C (+95°F) ) |        |          |           |
| Evaporating temperature       | Cooling capacity<br>+/- 5% |                    |         | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7%              |        |          |           |
|                               | °C                         | (°F)               | [Btu/h] | [kcal/h]                    | [W]                           | [W]                     | [A]                                    | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -40                           | (-40)                      | 526                | 133     | 154                         | 107                           | 0.63                    | 1.55                                   | 4.91   | 1.24     | 1.44      |
| -35                           | (-31)                      | 649                | 164     | 190                         | 119                           | 0.67                    | 1.92                                   | 5.44   | 1.37     | 1.59      |
| -30                           | (-22)                      | 804                | 203     | 236                         | 131                           | 0.71                    | 2.38                                   | 6.12   | 1.54     | 1.79      |
| -25                           | (-13)                      | 994                | 250     | 291                         | 143                           | 0.76                    | 2.96                                   | 6.96   | 1.75     | 2.04      |
| -20                           | (- 4)                      | 1223               | 308     | 358                         | 154                           | 0.81                    | 3.65                                   | 7.95   | 2.00     | 2.33      |
| -15                           | (+ 5)                      | 1493               | 376     | 437                         | 164                           | 0.85                    | 4.47                                   | 9.11   | 2.30     | 2.67      |
| -10                           | (+14)                      | 1808               | 456     | 530                         | 174                           | 0.89                    | 5.44                                   | 10.44  | 2.63     | 3.06      |
| -5                            | (+23)                      | 2172               | 547     | 637                         | 182                           | 0.92                    | 6.57                                   | 11.95  | 3.01     | 3.50      |
| 0                             | (+32)                      | 2588               | 652     | 758                         | 189                           | 0.95                    | 7.87                                   | 13.64  | 3.44     | 4.00      |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V50Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                    | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 485                        | 122      | 142 | 108                                    | 0.64                          | 1.43                    | 4.50                      | 1.13      | 1.32  |
| -35                           | (-31) | 609                        | 153      | 178 | 123                                    | 0.68                          | 1.80                    | 4.97                      | 1.25      | 1.46  |
| -30                           | (-22) | 761                        | 192      | 223 | 137                                    | 0.74                          | 2.26                    | 5.54                      | 1.40      | 1.62  |
| -25                           | (-13) | 947                        | 239      | 278 | 151                                    | 0.79                          | 2.82                    | 6.23                      | 1.57      | 1.82  |
| -20                           | (- 4) | 1169                       | 295      | 343 | 165                                    | 0.85                          | 3.49                    | 7.03                      | 1.77      | 2.06  |
| -15                           | (+ 5) | 1430                       | 360      | 419 | 179                                    | 0.91                          | 4.28                    | 7.95                      | 2.00      | 2.33  |
| -10                           | (+14) | 1734                       | 437      | 508 | 192                                    | 0.97                          | 5.22                    | 9.00                      | 2.27      | 2.64  |
| -5                            | (+23) | 2085                       | 525      | 611 | 205                                    | 1.02                          | 6.30                    | 10.18                     | 2.57      | 2.98  |
| 0                             | (+32) | 2484                       | 626      | 728 | 217                                    | 1.07                          | 7.55                    | 11.50                     | 2.90      | 3.37  |

| TEST CONDITIONS:<br>@220V50Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                    | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 434                        | 109      | 127 | 110                                    | 0.65                          | 1.28                    | 3.97                      | 1.00      | 1.16  |
| -35                           | (-31) | 557                        | 140      | 163 | 126                                    | 0.70                          | 1.65                    | 4.44                      | 1.12      | 1.30  |
| -30                           | (-22) | 707                        | 178      | 207 | 142                                    | 0.75                          | 2.10                    | 4.96                      | 1.25      | 1.45  |
| -25                           | (-13) | 887                        | 224      | 260 | 159                                    | 0.82                          | 2.64                    | 5.55                      | 1.40      | 1.63  |
| -20                           | (- 4) | 1102                       | 278      | 323 | 176                                    | 0.89                          | 3.29                    | 6.22                      | 1.57      | 1.82  |
| -15                           | (+ 5) | 1353                       | 341      | 396 | 194                                    | 0.96                          | 4.05                    | 6.96                      | 1.75      | 2.04  |
| -10                           | (+14) | 1645                       | 415      | 482 | 211                                    | 1.04                          | 4.95                    | 7.78                      | 1.96      | 2.28  |
| -5                            | (+23) | 1981                       | 499      | 580 | 227                                    | 1.11                          | 5.99                    | 8.70                      | 2.19      | 2.55  |
| 0                             | (+32) | 2363                       | 596      | 692 | 244                                    | 1.18                          | 7.18                    | 9.71                      | 2.45      | 2.84  |

| TEST CONDITIONS:<br>@220V50Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 65°C (+149°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                    | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 373                        | 94       | 109 | 112                                    | 0.66                          | 1.10                    | 3.30                      | 0.83      | 0.97  |
| -35                           | (-31) | 494                        | 125      | 145 | 129                                    | 0.71                          | 1.46                    | 3.82                      | 0.96      | 1.12  |
| -30                           | (-22) | 640                        | 161      | 188 | 148                                    | 0.78                          | 1.90                    | 4.35                      | 1.10      | 1.27  |
| -25                           | (-13) | 815                        | 205      | 239 | 167                                    | 0.85                          | 2.42                    | 4.90                      | 1.24      | 1.44  |
| -20                           | (- 4) | 1021                       | 257      | 299 | 187                                    | 0.93                          | 3.04                    | 5.49                      | 1.38      | 1.61  |
| -15                           | (+ 5) | 1261                       | 318      | 370 | 207                                    | 1.02                          | 3.78                    | 6.10                      | 1.54      | 1.79  |
| -10                           | (+14) | 1540                       | 388      | 451 | 228                                    | 1.11                          | 4.63                    | 6.76                      | 1.70      | 1.98  |
| -5                            | (+23) | 1860                       | 469      | 545 | 249                                    | 1.21                          | 5.62                    | 7.47                      | 1.88      | 2.19  |
| 0                             | (+32) | 2225                       | 561      | 652 | 270                                    | 1.30                          | 6.76                    | 8.22                      | 2.07      | 2.41  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V60Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 35°C (+95°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%           | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                   | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 616                        | 155      | 181 | 117                                   | 0.54                          | 1.82                    | 5.24                      | 1.32      | 1.53  |
| -35                           | (-31) | 780                        | 197      | 228 | 134                                   | 0.62                          | 2.31                    | 5.81                      | 1.46      | 1.70  |
| -30                           | (-22) | 977                        | 246      | 286 | 151                                   | 0.70                          | 2.90                    | 6.48                      | 1.63      | 1.90  |
| -25                           | (-13) | 1211                       | 305      | 355 | 167                                   | 0.77                          | 3.60                    | 7.26                      | 1.83      | 2.13  |
| -20                           | (- 4) | 1484                       | 374      | 435 | 182                                   | 0.84                          | 4.43                    | 8.17                      | 2.06      | 2.39  |
| -15                           | (+ 5) | 1799                       | 453      | 527 | 196                                   | 0.90                          | 5.39                    | 9.22                      | 2.32      | 2.70  |
| -10                           | (+14) | 2159                       | 544      | 633 | 208                                   | 0.96                          | 6.50                    | 10.42                     | 2.63      | 3.05  |
| -5                            | (+23) | 2567                       | 647      | 752 | 218                                   | 1.00                          | 7.76                    | 11.80                     | 2.97      | 3.46  |
| 0                             | (+32) | 3025                       | 762      | 886 | 225                                   | 1.02                          | 9.20                    | 13.35                     | 3.36      | 3.91  |

| TEST CONDITIONS:<br>@220V60Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                    | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 557                        | 140      | 163 | 120                                    | 0.55                          | 1.64                    | 4.66                      | 1.17      | 1.36  |
| -35                           | (-31) | 721                        | 182      | 211 | 139                                    | 0.64                          | 2.13                    | 5.19                      | 1.31      | 1.52  |
| -30                           | (-22) | 918                        | 231      | 269 | 158                                    | 0.72                          | 2.72                    | 5.78                      | 1.46      | 1.69  |
| -25                           | (-13) | 1151                       | 290      | 337 | 177                                    | 0.81                          | 3.42                    | 6.43                      | 1.62      | 1.88  |
| -20                           | (- 4) | 1423                       | 359      | 417 | 197                                    | 0.90                          | 4.25                    | 7.16                      | 1.81      | 2.10  |
| -15                           | (+ 5) | 1737                       | 438      | 509 | 216                                    | 0.99                          | 5.20                    | 7.99                      | 2.01      | 2.34  |
| -10                           | (+14) | 2095                       | 528      | 614 | 234                                    | 1.07                          | 6.30                    | 8.92                      | 2.25      | 2.61  |
| -5                            | (+23) | 2500                       | 630      | 733 | 251                                    | 1.15                          | 7.56                    | 9.98                      | 2.51      | 2.92  |
| 0                             | (+32) | 2956                       | 745      | 866 | 266                                    | 1.21                          | 8.98                    | 11.17                     | 2.81      | 3.27  |

| TEST CONDITIONS:<br>@220V60Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                    | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 494                        | 124      | 145 | 122                                    | 0.56                          | 1.46                    | 4.10                      | 1.03      | 1.20  |
| -35                           | (-31) | 653                        | 165      | 191 | 141                                    | 0.65                          | 1.93                    | 4.66                      | 1.17      | 1.37  |
| -30                           | (-22) | 845                        | 213      | 248 | 162                                    | 0.74                          | 2.50                    | 5.22                      | 1.32      | 1.53  |
| -25                           | (-13) | 1072                       | 270      | 314 | 184                                    | 0.85                          | 3.19                    | 5.80                      | 1.46      | 1.70  |
| -20                           | (- 4) | 1338                       | 337      | 392 | 208                                    | 0.95                          | 3.99                    | 6.41                      | 1.61      | 1.88  |
| -15                           | (+ 5) | 1645                       | 415      | 482 | 231                                    | 1.06                          | 4.93                    | 7.07                      | 1.78      | 2.07  |
| -10                           | (+14) | 1997                       | 503      | 585 | 255                                    | 1.17                          | 6.01                    | 7.78                      | 1.96      | 2.28  |
| -5                            | (+23) | 2395                       | 603      | 702 | 279                                    | 1.28                          | 7.24                    | 8.58                      | 2.16      | 2.51  |
| 0                             | (+32) | 2842                       | 716      | 833 | 301                                    | 1.38                          | 8.64                    | 9.46                      | 2.38      | 2.77  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V60Hz |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 65°C (+149°F) ) |                               |                         |                           |           |       |
|-------------------------------|-------|----------------------------|----------|-----|---|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature       |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%             | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                            | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                     | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -40                           | (-40) | 426                        | 107      | 125 | 123                                     | 0.57                          | 1.26                    | 3.40                      | 0.86      | 1.00  |
| -35                           | (-31) | 575                        | 145      | 169 | 143                                     | 0.66                          | 1.70                    | 4.03                      | 1.01      | 1.18  |
| -30                           | (-22) | 757                        | 191      | 222 | 165                                     | 0.76                          | 2.24                    | 4.61                      | 1.16      | 1.35  |
| -25                           | (-13) | 974                        | 245      | 285 | 190                                     | 0.87                          | 2.89                    | 5.17                      | 1.30      | 1.52  |
| -20                           | (- 4) | 1229                       | 310      | 360 | 217                                     | 1.00                          | 3.66                    | 5.72                      | 1.44      | 1.68  |
| -15                           | (+ 5) | 1525                       | 384      | 447 | 245                                     | 1.13                          | 4.57                    | 6.26                      | 1.58      | 1.84  |
| -10                           | (+14) | 1864                       | 470      | 546 | 274                                     | 1.26                          | 5.61                    | 6.82                      | 1.72      | 2.00  |
| -5                            | (+23) | 2250                       | 567      | 659 | 303                                     | 1.40                          | 6.80                    | 7.41                      | 1.87      | 2.17  |
| 0                             | (+32) | 2685                       | 677      | 787 | 333                                     | 1.53                          | 8.16                    | 8.04                      | 2.03      | 2.36  |

### F - EXTERNAL CHARACTERISTICS

|                         |                                |      |                          |
|-------------------------|--------------------------------|------|--------------------------|
| 1 Base plate            | Universal EUEM                 |      |                          |
| 2 Tray holder           | No                             |      |                          |
| 3 Connectors            |                                |      |                          |
| 3.1 SUCTION             | 6.1 +0.10/+0.00                | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material          | Copper                         |      |                          |
| 3.1.2 Shape             | Slanted 42° up + 45° to Back   |      |                          |
| 3.2 DISCHARGE           | 4.94 +0.08/-0.08               | [mm] | (0.194" +0.003"/-0.003") |
| 3.2.1 Material          | Copper                         |      |                          |
| 3.2.2 Shape             | Slanted parallel BP+24°to Back |      |                          |
| 3.3 PROCESS             | 6.1 +0.10/+0.00                | [mm] | (0.240" +0.004"/+0.000") |
| 3.3.1 Material          | Copper                         |      |                          |
| 3.3.2 Shape             | Slanted 45° up + 45° to Back   |      |                          |
| 3.4 Oil cooler (Copper) | No                             | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                   |      |                          |