



## SILENSYS® ADVANCED

*The acoustic reference for enclosed units since 2001.*



### DURABLE SOLUTION

- ▶ In line with the F-Gas Directive 517/2014
- ▶ Low GWP solution (R-455A/R-454C: 148; R-1234yf: 4) exceeding the requirements of F-Gas for fixed refrigeration systems
- ▶ COP compliant with the requirements of the Ecodesign Directive 2015/1095

### EASY TO USE

- ▶ Selection, implementation and maintenance as easy as with HFCs
- ▶ Independent refrigeration and electrical compartments, with their own door
- ▶ Control of the refrigeration system identical to the current SILENSYS

### SAFE BY DESIGN

- ▶ No creation of flammable zones
- ▶ Containment of fluid: reduction of internal volumes, design preventing fatigue of the assemblies.
- ▶ Components housed in the compressor compartment with "type n" protection in accordance with standards in series 60079.

### TECHNICAL AND ECONOMICAL CHOICE

- ▶ Technical solution adapted to power 1-15 kW
- ▶ Energy efficiency of direct expansion
- ▶ Simplicity of the refrigeration system

# POSITIVE COLD APPLICATION (HBP)



## SILENSYS® ADVANCED



| MODEL         | REFRIGERATION OUTPUT<br>32 °C amb., 10K superheat, 3K subcool |      |      |      |      |       |       | REFRIG. OUTPUT<br>EN13215<br>To -10 °C |              | Aco. P<br>dB(A)<br>at<br>10 m | Vent.<br>flow<br>rate<br>m³/h | Res.<br>Vol. L | Pipe diam.  |             | Dim.<br>No. | Max. current<br>A |      |
|---------------|---|------|------|------|------|-------|-------|--|--------------|-------------------------------|-------------------------------|----------------|-------------|-------------|-------------|-------------------|------|
|               | Evaporation temperature (°C):                                 |      |      |      |      |       |       | Perf.<br>(W)                           | COP<br>(W/W) |                               |                               |                | Suction     | Liq. disch. |             | FZ                | TX   |
|               | -15°  | -10° | -5°  | 0°   | 5°   | 10°   | 15°   |  |              |                               |                               |                |             |             |             |                   |      |
| SILAE4450N-FZ | 560   | 710  | 870  | 1060 | 1270 | 1510  | 1770  | 790                                    | 1.89         | 28                            | 1300                          | 0.75           | 9.5 - 3/8"  | 6.35 - 1/4" | S           | /                 | /    |
| SILAE4460N-FZ | 620   | 770  | 950  | 1150 | 1370 | 1610  | 1890  | 860                                    | 1.75         | 28                            | 1300                          | 0.75           | 9.5 - 3/8"  | 6.35 - 1/4" | S           | /                 | /    |
| SILAJ4461N-TX | 610   | 800  | 1010 | 1250 | 1530 | 1850  | 2210  | 880                                    | 1.84         | 28                            | 1300                          | 0.75           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | /                 | 2.8  |
| SILAJ4476N-FZ | 710   | 910  | 1150 | 1410 | 1720 | 2060  | 2450  | 1010                                   | 1.72         | 28                            | 1300                          | 0.75           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | 7.4               | /    |
| SILAJ4492N-FZ | 890   | 1140 | 1430 | 1740 | 2100 | 2480  | 2900  | 1270                                   | 1.74         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | 9.1               | /    |
| SILAJ4492N-TX | 890   | 1140 | 1430 | 1760 | 2110 | 2500  | 2930  | 1270                                   | 1.90         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | /                 | 3.7  |
| SILAJ4511N-FZ | 1130  | 1430 | 1780 | 2170 | 2600 | 3080  | 3600  | 1600                                   | 1.92         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | 8.8               | /    |
| SILAJ4511N-TX | 1130  | 1430 | 1780 | 2170 | 2610 | 3100  | 3640  | 1600                                   | 1.83         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | /                 | 4.4  |
| SILAJ4513N-FZ | 1160  | 1480 | 1830 | 2230 | 2680 | 3170  | 3710  | 1650                                   | 1.85         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 9.5 - 3/8"  | S           | 10.9              | /    |
| SILFH4518N-XC | 1630  | 2100 | 2660 | 3320 | 4060 | 4890  | 5800  | 2340                                   | 2.04         | 34                            | 2900                          | 1.50           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | 13.3              | /    |
| SILFH4518N-TX | 1530  | 1970 | 2490 | 3080 | 3740 | 4490  | 5320  | 2200                                   | 2.12         | 34                            | 2900                          | 1.50           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | /                 | 4.8  |
| SILFH4525N-XC | 2060  | 2620 | 3260 | 3980 | 4800 | 5720  | 6760  | 2920                                   | 2.06         | 34                            | 2900                          | 1.50           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | 17.1              | /    |
| SILFH4525N-TX | 2070  | 2630 | 3280 | 4030 | 4880 | 5840  | 6910  | 2930                                   | 2.19         | 34                            | 2900                          | 1.50           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | /                 | 6.5  |
| SILAG4528N-TX | 1950  | 2890 | 3670 | 4520 | 5610 | 6510  | 7820  | 3090                                   | 2.04         | 39                            | 2900                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 12.3 |
| SILAG4534N-TX | 2510  | 3310 | 4210 | 5220 | 6340 | 7580  | 8960  | 3690                                   | 1.88         | 37                            | 2900                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 11.6 |
| SILAG4537N-TX | 2770  | 3620 | 4580 | 5650 | 6830 | 8130  | 9600  | 4050                                   | 1.86         | 37                            | 2900                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 12.0 |
| SILAG4543N-TX | 3200  | 4120 | 5120 | 6220 | 7430 | 8770  | 10290 | 4620                                   | 1.86         | 38                            | 2900                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 12.3 |
| SILAG4547N-TX | 3750  | 4780 | 5950 | 7230 | 8650 | 10180 | 11860 | 5360                                   | 2.33         | 37                            | 4870                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 12.8 |

# NEGATIVE COLD APPLICATION (LBP)



## SILENSYS® ADVANCED

R-455A

R-454C

| MODEL         | REFRIGERATION OUTPUT, R-455A*<br>32 °C amb., 10K superheat, 3K subcool, Mid/Mid |      |      |      |      |      | REFRIG. OUTPUT<br>EN13215<br>To -10 °C |              | Aco. P<br>dB(A)<br>at<br>10 m | Vent.<br>flow<br>rate<br>m³/h | Res.<br>Vol. L | Pipe diam.  |             | Dim.<br>No. | Max. current<br>A |      |
|---------------|---|------|------|------|------|------|--|--------------|-------------------------------|-------------------------------|----------------|-------------|-------------|-------------|-------------------|------|
|               | Evaporation temperature (°C):   |      |      |      |      |      | Perf.<br>(W)                           | COP<br>(W/W) |                               |                               |                | Suction     | Liq. disch. |             | FZ (or<br>XC)     | TX   |
|               | -35°  | -30° | -25° | -20° | -15° | -10° |  |              |                               |                               |                |             |             |             |                   |      |
| SILAJ2432P-FZ | 340   | 480  | 650  | 860  | 1100 | 1380 | 390                                    | 0.97         | 28                            | 1300                          | 0.75           | 12.7 - 1/2" | 6.35 - 1/4" | S           | 5.7               | /    |
| SILAJ2440P-FZ | 430   | 590  | 790  | 1020 | 1290 | 1600 | 490                                    | 1.01         | 28                            | 1300                          | 0.75           | 12.7 - 1/2" | 6.35 - 1/4" | S           | 6.1               | /    |
| SILAJ2446P-FZ | 490   | 690  | 920  | 1180 | 1480 | 1820 | 570                                    | 0.95         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 6.35 - 1/4" | S           | 8.0               | /    |
| SILAJ2446P-TX | 490   | 690  | 920  | 1180 | 1480 | 1820 | 570                                    | 0.95         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 6.35 - 1/4" | S           | /                 | /    |
| SILAJ2464P-FZ | 650   | 900  | 1180 | 1520 | 1910 | 2350 | 750                                    | 0.98         | 28                            | 1300                          | 1.50           | 12.7 - 1/2" | 6.35 - 1/4" | S           | 9.9               | /    |
| SILAJ2464P-TX | 650   | 890  | 1170 | 1500 | 1880 | 2310 | 750                                    | 0.99         | 30                            | 1300                          | 1.50           | 12.7 - 1/2" | 6.35 - 1/4" | S           | /                 | 3.7  |
| SILFH2480P-XC | 980   | 1390 | 1890 | 2490 | 3200 | 4020 | 1150                                   | 1.05         | 35                            | 2900                          | 1.50           | 15.9 - 5/8" | 9.5 - 3/8"  | M           | 17.1              | /    |
| SILFH2480P-TX | 980   | 1390 | 1890 | 2490 | 3200 | 4020 | 1150                                   | 1.14         | 35                            | 2900                          | 1.50           | 15.9 - 5/8" | 9.5 - 3/8"  | M           | /                 | 7.6  |
| SILFH2511P-XC | 1370  | 1980 | 2690 | 3490 | 4410 | 5400 | 1870                                   | 1.07         | 37                            | 2900                          | 1.50           | 15.9 - 5/8" | 9.5 - 3/8"  | M           | 25.1              | /    |
| SILFH2511P-TX | 1290  | 1880 | 2550 | 3320 | 4220 | 5190 | 1770                                   | 1.07         | 37                            | 2900                          | 1.50           | 15.9 - 5/8" | 9.5 - 3/8"  | M           | /                 | 9.1  |
| SILAG2513P-TX | 1010  | 1580 | 2240 | 3000 | 3870 | 4880 | 1620                                   | 0.97         | 41                            | 2900                          | 2.35           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | /                 | 9.7  |
| SILAG2516P-TX | 1290  | 2050 | 2930 | 3940 | 5090 | 6380 | 1500                                   | 0.92         | 41                            | 2900                          | 2.35           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | /                 | 10.7 |
| SILAG2519P-TX | 1650  | 2470 | 3420 | 4500 | 5730 | 7110 | 1930                                   | 0.99         | 41                            | 2900                          | 2.35           | 22.2 - 7/8" | 9.5 - 3/8"  | M           | /                 | 11.6 |
| SILAG2522P-TX | 1880  | 2750 | 3780 | 4970 | 6330 | 7880 | 2190                                   | 1.44         | 44                            | 4870                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 14.8 |
| SILAG2525P-TX | 2150  | 3100 | 4200 | 5470 | 6920 | 8560 | 2510                                   | 1.45         | 45                            | 4870                          | 3.90           | 22.2 - 7/8" | 12.7 - 1/2" | M           | /                 | 14.1 |

\* for further details on powers, refer to the selection software that can be downloaded from <https://www.tecumseh.com>

# POSITIVE COLD APPLICATION (HBP)



## SILENSYS® ADVANCED



| MODEL         | REFRIGERATION OUTPUT, R455A*<br>32 °C amb., 10K superheat, 3K subcool, Mid/Mid |      |      |       |       |       |       | REFRIG. OUTPUT<br>EN13215<br>To -10 °C |              | Aco. P<br>dB(A)<br>at<br>10 m | Vent.<br>flow<br>rate<br>m³/h | Res.<br>Vol.<br>L | Pipe diam.    |             | Dim.<br>No. | Max. current<br>A |      |
|---------------|--|------|------|-------|-------|-------|-------|--|--------------|-------------------------------|-------------------------------|-------------------|---------------|-------------|-------------|-------------------|------|
|               | Evaporation temperature (°C):  |      |      |       |       |       |       | Perf.<br>(W)                           | COP<br>(W/W) |                               |                               |                   | Suction       | Liq. disch. |             | FZ (or<br>XC)     | TX   |
|               | -25°   | -15° | -10° | -5°   | 0°    | 5°    | 15°   |  |              |                               |                               |                   |               |             |             |                   |      |
| SILAE4450P-FZ | 390  | 620  | 770  | 940   | 1140  | 1380  | 1940  | 800                                    | 1.76         | 28                            | 1300                          | 0.75              | 9.5 - 3/8"    | 6.35 - 1/4" | S           | na                | /    |
| SILAE4460P-FZ | 460  | 720  | 890  | 1080  | 1310  | 1570  | 2190  | 930                                    | 1.78         | 28                            | 1300                          | 0.75              | 9.5 - 3/8"    | 6.35 - 1/4" | S           | na                | /    |
| SILAE4470P-FZ | 540  | 830  | 1020 | 1240  | 1500  | 1800  | 2500  | 1070                                   | 1.70         | 28                            | 1300                          | 0.75              | 9.5 - 3/8"    | 6.35 - 1/4" | S           | na                | /    |
| SILAJ4480P-FZ | 500  | 890  | 1140 | 1420  | 1750  | 2110  | 3000  | 1200                                   | 1.78         | 29                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | 6.1               | /    |
| SILAJ4480P-TX | 500  | 890  | 1130 | 1410  | 1730  | 2100  | 3010  | 1190                                   | 1.74         | 29                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | /                 | 3.1  |
| SILAJ4510P-FZ | 600  | 1060 | 1340 | 1660  | 2030  | 2450  | 3480  | 1410                                   | 1.70         | 28                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | 7.7               | /    |
| SILAJ4510P-TX | 660  | 1120 | 1410 | 1730  | 2110  | 2530  | 3550  | 1490                                   | 1.77         | 28                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | /                 | 3.6  |
| SILAJ4513P-FZ | 720  | 1320 | 1690 | 2120  | 2620  | 3180  | 4570  | 1780                                   | 1.80         | 28                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | 10.2              | /    |
| SILAJ4513P-TX | 650  | 1280 | 1660 | 2100  | 2600  | 3170  | 4560  | 1750                                   | 1.76         | 28                            | 1300                          | 1.50              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | /                 | 3.8  |
| SILAJ4517P-FZ | 760  | 1430 | 1840 | 2310  | 2830  | 3420  | 4850  | 1950                                   | 1.76         | 28                            | 1300                          | 2.35              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | 11.3              | /    |
| SILAJ4517P-TX | 820  | 1510 | 1920 | 2370  | 2870  | 3430  | 4760  | 2030                                   | 1.86         | 28                            | 1300                          | 2.35              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | /                 | 4.3  |
| SILAJ4519P-FZ | 1040   | 1860 | 2370 | 2940  | 3580  | 4290  | 5840  | 2500                                   | 1.83         | 29                            | 1300                          | 2.35              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | 16.5              | /    |
| SILAJ4519P-TX | 1060   | 1900 | 2410 | 2990  | 3640  | 4350  | 5900  | 2550                                   | 1.76         | 28                            | 1300                          | 2.35              | 12.7 - 1/2"   | 9.5 - 3/8"  | S           | /                 | 5.5  |
| SILFH4524P-XC | 1290   | 2420 | 3130 | 3940  | 4870  | 5920  | 8400  | 3330                                   | 2.17         | 41                            | 2900                          | 2.35              | 15.9 - 5/8"   | 9.5 - 3/8"  | M           | 16                | /    |
| SILFH4524P-TX | 1290   | 2420 | 3130 | 3940  | 4870  | 5920  | 8400  | 3330                                   | 2.18         | 41                            | 2900                          | 2.35              | 15.9 - 5/8"   | 9.5 - 3/8"  | M           | /                 | 8    |
| SILFH4532P-XC | 1630   | 2990 | 3820 | 4770  | 5840  | 7040  | 9890  | 4070                                   | 2.12         | 41                            | 2900                          | 3.90              | 22.2 - 7/8"   | 12.7 - 1/2" | M           | 20.5              | /    |
| SILFH4532P-TX | 1630   | 2990 | 3820 | 4770  | 5840  | 7040  | 9890  | 4070                                   | 2.11         | 41                            | 2900                          | 3.90              | 22.2 - 7/8"   | 12.7 - 1/2" | M           | /                 | 8.5  |
| SILFH4538P-XC | 2160   | 3760 | 4720 | 5820  | 7060  | 8460  | 11840 | 5050                                   | 2.60         | 41                            | 2900                          | 3.90              | 22.2 - 7/8"   | 12.7 - 1/2" | M           | 25.3              | /    |
| SILFH4538P-TX | 2160   | 3760 | 4720 | 5820  | 7060  | 8460  | 11840 | 5050                                   | 2.60         | 41                            | 2900                          | 3.90              | 22.2 - 7/8"   | 12.7 - 1/2" | M           | /                 | 11   |
| SILFH4544P-TX | 2190   | 4030 | 5130 | 6290  | 7420  | 8910  | 12500 | 5660                                   | 2.71         | 43                            | 4870                          | 3.90              | 22.2 - 7/8"   | 12.7 - 1/2" | M           | /                 | 12.7 |
| SILAG4546P-TX | 2140   | 4060 | 5260 | 6620  | 8160  | 9850  | 13790 | 5830                                   | 2.70         | 46                            | 5000                          | 6.00              | 22.2 - 7/8"   | 15.9 - 5/8" | M+          | /                 | 13   |
| SILAG4553P-TX | 2590   | 4790 | 6160 | 7730  | 9490  | 11430 | 15930 | 6820                                   | 2.72         | 46                            | 5000                          | 6.00              | 22.2 - 7/8"   | 15.9 - 5/8" | M+          | /                 | 14.7 |
| SILAG4561P-TX | 2940   | 5220 | 6610 | 8180  | 9930  | 11850 | 16370 | 7360                                   | 2.71         | 46                            | 5000                          | 6.00              | 22.2 - 7/8"   | 15.9 - 5/8" | M+          | /                 | 15.9 |
| SILAG4568P-TX | 3270   | 5910 | 7630 | 9450  | 11780 | 14330 | 20170 | 8470                                   | 2.72         | 46                            | 5000                          | 6.00              | 22.2 - 7/8"   | 15.9 - 5/8" | M+          | /                 | 17.6 |
| SILAG4573P-TX | 3560   | 6300 | 8070 | 9920  | 12270 | 14810 | 20510 | 8980                                   | 2.73         | 48                            | 5000                          | 6.00              | 28.6 - 1"1/8" | 15.9 - 5/8" | M+          | /                 | 18.7 |
| SILAG4581P-TX | 3880   | 7110 | 9160 | 11270 | 13920 | 16730 | 22740 | 10150                                  | 2.73         | 48                            | 5000                          | 6.00              | 28.6 - 1"1/8" | 15.9 - 5/8" | M+          | /                 | 20   |

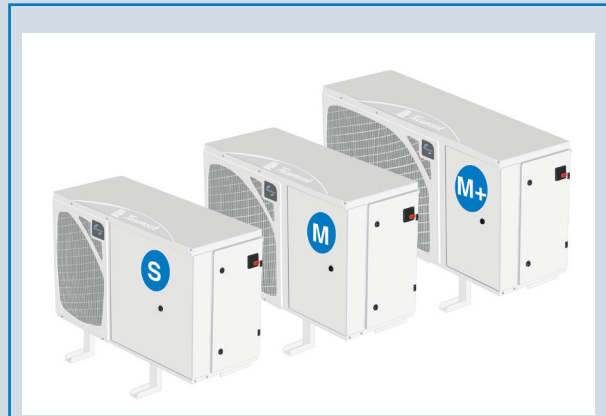
\* for further details on powers, refer to the selection software that can be downloaded from <https://www.tecumseh.com>



# DIMENSIONS / WEIGHTS

## POSITIVE COLD (HBP) R-1234yf

| MODEL         | Base | Width mm | Height mm | Depth mm | Net Weight kg | Gross weight kg |
|---------------|------|----------|-----------|----------|---------------|-----------------|
| SILAE4450N-FZ | S    | 953      | 837       | 654      | 58            | 75              |
| SILAE4460N-FZ | S    | 953      | 837       | 654      | 58            | 75              |
| SILAJ4461N-TX | S    | 953      | 837       | 654      | 65            | 82              |
| SILAJ4476N-FZ | S    | 953      | 837       | 654      | 65            | 82              |
| SILAJ4492N-FZ | S    | 953      | 837       | 654      | 69            | 86              |
| SILAJ4492N-TX | S    | 953      | 837       | 654      | 69            | 86              |
| SILAJ4511N-FZ | S    | 953      | 837       | 654      | 71            | 88              |
| SILAJ4511N-TX | S    | 953      | 837       | 654      | 71            | 88              |
| SILAJ4513N-FZ | S    | 953      | 837       | 654      | 72            | 89              |
| SILFH4518N-XC | M    | 1178     | 837       | 654      | 82            | 108             |
| SILFH4518N-TX | M    | 1178     | 837       | 654      | 82            | 108             |
| SILFH4525N-XC | M    | 1178     | 837       | 654      | 82            | 108             |
| SILFH4525N-TX | M    | 1178     | 837       | 654      | 82            | 108             |
| SILAG4528N-TX | M    | 1178     | 837       | 654      | 95            | 121             |
| SILAG4534N-TX | M    | 1178     | 837       | 654      | 95            | 121             |
| SILAG4537N-TX | M    | 1178     | 837       | 654      | 97            | 123             |
| SILAG4543N-TX | M    | 1178     | 837       | 654      | 97            | 132             |
| SILAG4547N-TX | M    | 1178     | 837       | 654      | 99            | 134             |



| FRAME | Width mm | Height mm | Depth mm |
|-------|----------|-----------|----------|
| S     | 953      | 837       | 654      |
| M     | 1178     | 837       | 654      |
| M+    | 1400     | 830       | 654      |

## NEGATIVE COLD (LBP) R-455A / R-454C

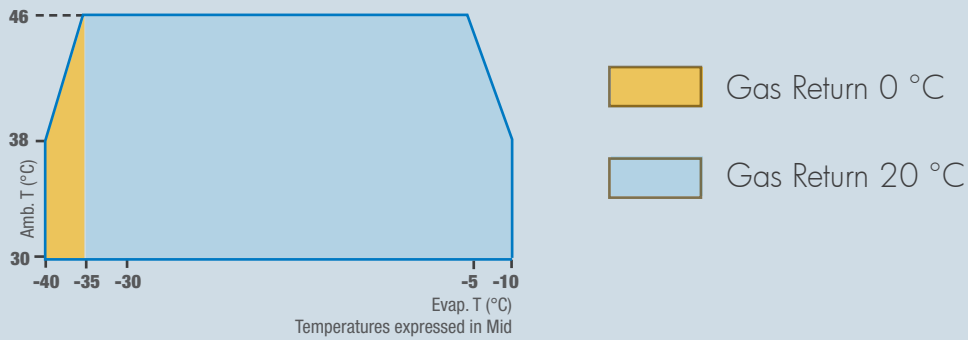
| MODEL         | Base | Width mm | Height mm | Depth mm | Net weight kg | Gross weight kg |
|---------------|------|----------|-----------|----------|---------------|-----------------|
| SILAJ2432P-FZ | S    | 953      | 837       | 654      | 66            | 85              |
| SILAJ2440P-FZ | S    | 953      | 837       | 654      | 67            | 86              |
| SILAJ2446P-FZ | S    | 953      | 837       | 654      | 68            | 87              |
| SILAJ2446P-TX | S    | 953      | 837       | 654      | 68            | 87              |
| SILAJ2464P-FZ | S    | 953      | 837       | 654      | 69            | 88              |
| SILAJ2464P-TX | S    | 953      | 837       | 654      | 69            | 88              |
| SILFH2480P-XC | M    | 1178     | 837       | 654      | 82            | 108             |
| SILFH2480P-TX | M    | 1178     | 837       | 654      | 82            | 108             |
| SILFH2511P-XC | M    | 1178     | 837       | 654      | 83            | 109             |
| SILFH2511P-TX | M    | 1178     | 837       | 654      | 83            | 109             |
| SILAG2513P-TX | M    | 1178     | 837       | 654      | 94            | 120             |
| SILAG2516P-TX | M    | 1178     | 837       | 654      | 94            | 120             |
| SILAG2519P-TX | M    | 1178     | 837       | 654      | 95            | 121             |
| SILAG2522P-TX | M    | 1178     | 837       | 654      | 95            | 121             |
| SILAG2525P-TX | M    | 1178     | 837       | 654      | 96            | 122             |

## POSITIVE COLD (HBP) R-455A / R-454C

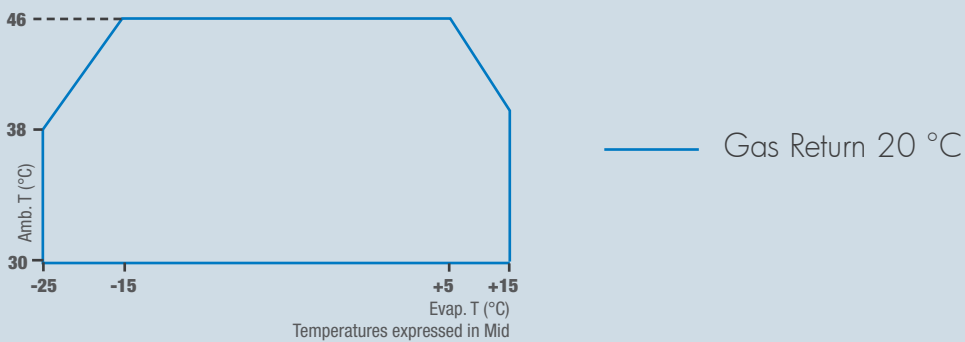
| MODEL         | Base | Width mm | Height mm | Depth mm | Net weight kg | Gross weight kg |
|---------------|------|----------|-----------|----------|---------------|-----------------|
| SILAE4450P-FZ | S    | 953      | 837       | 654      | 57            | 76              |
| SILAE4460P-FZ | S    | 953      | 837       | 654      | 58            | 77              |
| SILAE4470P-FZ | S    | 953      | 837       | 654      | 58            | 77              |
| SILAJ4480P-FZ | S    | 953      | 837       | 654      | 67            | 86              |
| SILAJ4480P-TX | S    | 953      | 837       | 654      | 67            | 76              |
| SILAJ4510P-FZ | S    | 953      | 837       | 654      | 71            | 77              |
| SILAJ4510P-TX | S    | 953      | 837       | 654      | 71            | 77              |
| SILAJ4513P-FZ | S    | 953      | 837       | 654      | 71            | 86              |
| SILAJ4513P-TX | S    | 953      | 837       | 654      | 71            | 86              |
| SILAJ4517P-FZ | S    | 953      | 837       | 654      | 71            | 90              |
| SILAJ4517P-TX | S    | 953      | 837       | 654      | 71            | 90              |
| SILAJ4519P-FZ | S    | 953      | 837       | 654      | 72            | 90              |
| SILAJ4519P-TX | S    | 953      | 837       | 654      | 72            | 90              |
| SILFH4524P-XC | M    | 1178     | 837       | 654      | 86            | 90              |
| SILFH4524P-TX | M    | 1178     | 837       | 654      | 86            | 90              |
| SILFH4532P-XC | M    | 1178     | 837       | 654      | 88            | 91              |
| SILFH4532P-TX | M    | 1178     | 837       | 654      | 88            | 91              |
| SILFH4538P-XC | M    | 1178     | 837       | 654      | 88            | 111             |
| SILFH4538P-TX | M    | 1178     | 837       | 654      | 88            | 111             |
| SILFH4544P-TX | M    | 1178     | 837       | 654      | 90            | 113             |
| SILAG4546P-TX | M+   | 1400     | 830       | 654      | 125           | 160             |
| SILAG4553P-TX | M+   | 1400     | 830       | 654      | 125           | 160             |
| SILAG4561P-TX | M+   | 1400     | 830       | 654      | 127           | 162             |
| SILAG4568P-TX | M+   | 1400     | 830       | 654      | 127           | 162             |
| SILAG4573P-TX | M+   | 1400     | 830       | 654      | 130           | 165             |
| SILAG4581P-TX | M+   | 1400     | 830       | 654      | 130           | 165             |

# APPLICATION WINDOWS

## Negative cold (LBP) R-455A / R-454C



## Positive cold (HBP) R-455A / R-454C



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