

## **PACKAGED VERTICAL SPLIT UNITS**

**R407C**  
**R22**



- **Cooling Only and Heat Pump**
- **Cooling Capacities of 19,7 a 92 kW**

**COMPACTAIR**

# COOLING ONLY AND HEAT PUMP

## Cooling Capacities of 19,7 a 92 kW



Height energy efficiency

Scroll compressors on all models

Digital controller

R407C on Cooling Only and Heat Pump units

Smart defrost system



## Stand-Alone or Vertical Split Air Conditioning Units

### Cooling Only or Heat Pump models

- Scroll compressors
- Class M1 self-extinguishing insulation on outdoor unit
- Aluminium mesh insulation on indoor unit:
  - Self-extinguishing in case of fire, class M1(UNE 23727-90)
  - Toxicity classification F1
- Height energy efficiency (EER/COP)
  - Height efficiency exchanger with rifled copper pipe.
- Easily washable air filters made of class M1 self-extinguishing material.

**Cabinet:** made of galvanized sheet steel, painted and finished in polyester, weather conditioned.

**Easy access** to all components by means of **removable panels**.

**Motor fans:** centrifugal type for both indoor and outdoor units, with **flexible connections** to prevent vibration being passed on to ducts.

### Cooling circuit consisting of:

- Scroll compressor mounted anti-vibration mounts.
- Dehumidifying filter.
- Thermostatic expansion valve.
- Height pressure switch with manual reset by via the controller.
- Low pressure switch with automatic reset.
- Suction accumulator (LVH models).
- Non return valves (FLH models).

### Electrical panel complies with European directive EN 60204-1 which includes:

- Power contactors.
- Compressor and fan motors protection fuses.
- Crankcase heater (LVH models).
- Electronic control.

## OPERATING LIMITS (DB: Dry Bulb Temperature / WB: Wet Bulb Temperature)

| COOLING ONLY UNITS R407C |                     | Maximum Temperatures | Minimum Temperature  |
|--------------------------|---------------------|----------------------|--|
| ■ Cooling operation      | Indoor temperature  | 32° C DB/ 23° C WB   | 21° C DB / 15° C WB  |
|                          | Outdoor temperature | 42° C DB             | 0° C (with standard ON/OFF Low ambient kit)<br>-10° C (with optional PROPORTIONAL Low ambient kit) |
| HEAT PUMP UNITS R407C    |                     | Maximum Temperatures | Minimum Temperature  |
| ■ Cooling operation      | Indoor temperature  | 32° C DB/ 23° C WB   | 21° C DB/ 15° C WB   |
|                          | Outdoor temperature | 46° C DB             | 0° C (with standard low ambient kit)<br>19° C DB (with standard low ambient kit) (Optional)        |
| ■ Heating operation      | Indoor temperature  | 27° C DB/ 18° C WB   | 21° C DB/ 15° C WB   |
|                          | Outdoor temperature | 24° C DB/ 18° C WB   | -10° C DB/ -11° C WB   |

# CONTROLLER



## • Two-wire thermostat connection

- Automatic reset in the event of a power failure
- Selection of various setpoints
- Smart defrost

## LCD Display

- Shows room temperature, setpoint, unit operating mode.
- Easy selection of unit operating mode: Comfort/Short Absence/Night-time
- Remote sensor in return duct (optional), remote environment sensor (optional)
- Indicates and displays various alarms, such as: air filter dirty, unit operating outside limits, high pressure switch cutout, etc.

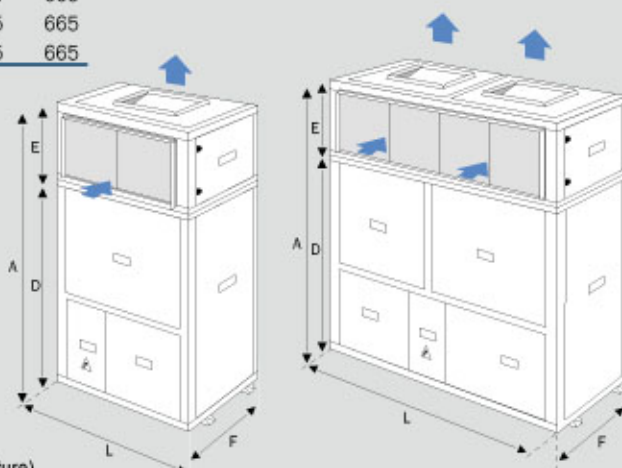
| Categorie     | COOLING  | HEAT   |
|---------------|--|--|
| COMFORT       | Desired temperature (setpoint)                           | Desired temperature ( setpoint)                          |
| SHORT ABSENCE | Setpoint increases 4° C by selecting in Comfort category | Setpoint decreases 4° C by selecting in Comfort category |
| NIGHT-TIME    | Setpoint increases 2° C by selecting in Comfort category | Setpoint decreases 2° C by selecting in Comfort category |

## DIMENSIONES

Dimensions mm

| Single Models                 | A     | L     | F   | D     | E   |
|-------------------------------|-------|-------|-----|-------|-----|
| Models 22 E, 24 E, 28 E, 32 E | 2.040 | 1.285 | 803 | 1.375 | 665 |
| Models 38 E                   | 2.105 | 1.410 | 803 | 1.440 | 665 |

| Dual Models               | A     | L     | F   | D     | E   |
|---------------------------|-------|-------|-----|-------|-----|
| Models 44D, 48D, 56D, 64D | 2.045 | 2.340 | 803 | 1.380 | 665 |
| Models 76D                | 2.110 | 2.590 | 803 | 1.445 | 665 |
| Models 86D, 100 D         | 2.110 | 3.140 | 803 | 1.445 | 665 |



## OPERATING LIMITS (DB: Dry Bulb Temperature / WB: Wet Bulb Temperature)

| HEAT PUMP UNITS R22 |                     | Maximum Temperatures | Minimum Temperature |
|---------------------|---------------------|----------------------|---------------------|
| ■ Cooling operation | Indoor temperature  | 32° C DB/ 23° C WB   | 21° C DB / 15° C WB |
|                     | Outdoor temperature | 46° C DB             | 19° C DB            |
| ■ Heating operation | Indoor temperature  | 27° C DB/ 18° C WB   | 21° C DB / 15° C WB |
|                     | Outdoor temperature | 24° C DB/ 18° C WB   | -8° C DB / -9° C WB |

# OPTIONS

- Condenser head pressure control
- Main switch
- Phase sequencer installation kit
- Electric heating coil
- Free-cooling kit, without return fan
- Free-cooling kit, with return fan
- External static pressure boost kit
- Vertical discharge kit for split outdoor unit-

## FREE-COOLING

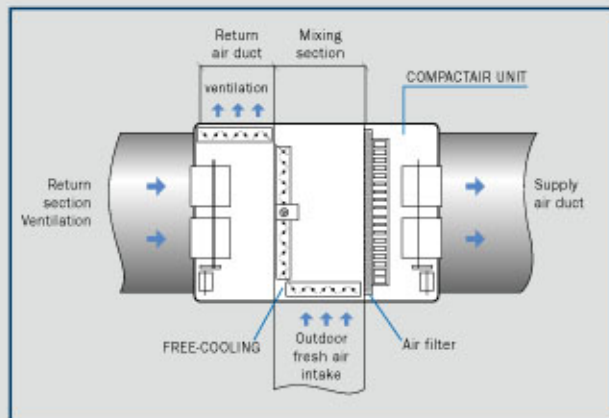


Diagram of free-cooling **with** return fan

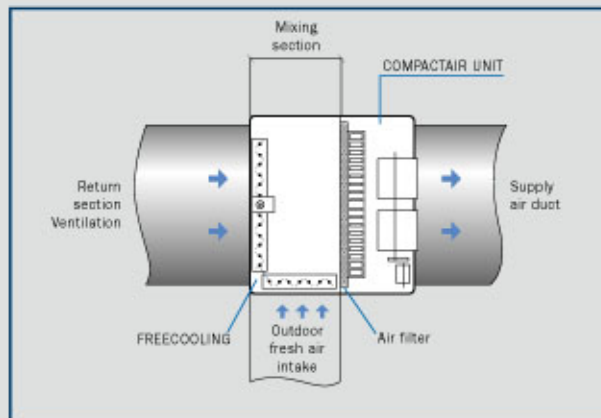
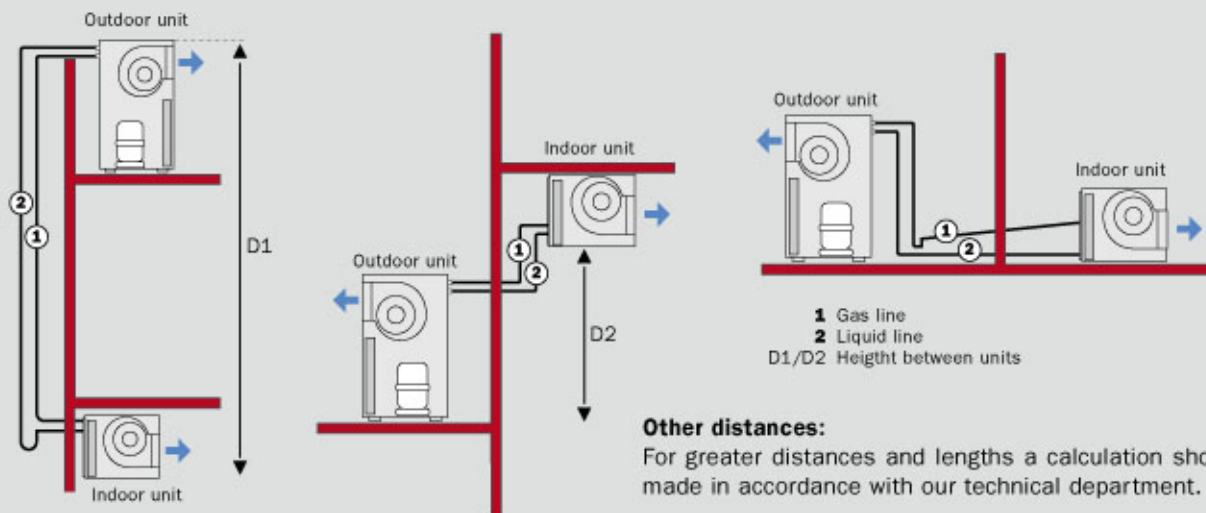


Diagram of free-cooling **without** return fan

## REFRIGERANT PIPES



### COOLING DATA (\*)

| Models                                 |                     | 22E         | 24E           | 28E           | 32E           | 38E           | 44D                |
|--|---------------------|-------------|---------------|---------------|---------------|---------------|--------------------|
| Bevel coupling pipe                    | Liquid              | 5/8" - 5/8" | 5/8" - 5/8"   | 5/8" - 5/8"   | 5/8" - 3/4"   | 3/4" - 3/4"   | 2 x (5/8" - 5/8")  |
|  | Gas                 | 7/8 - 11/8" | 11/8" - 11/8" | 11/8" - 11/8" | 11/8" - 13/8" | 11/8" - 15/8" | 2 x (7/8" - 11/8") |
| Cooling distances (Max. Vert.) D2 / D1 |                     | 15          | 15            | 15            | 15            | 15            | 15                 |
| Cooling distances                      | Total Vert. + horiz | 10/30       | 10/30         | 10/30         | 10/30         | 10 /30        | 10/30              |
| Max. number of bends                   |                     | 12          | 12            | 12            | 12            | 12            | 12                 |

| Models                                 |                     | 48D                 | 56D                 | 64D                 | 76D                 | 86D          | 100D         |
|--|---------------------|---------------------|---------------------|---------------------|---------------------|--------------|--------------|
| Bevel coupling pipe                    | Liquid              | 2 x (5/8" - 5/8")   | 2 x (5/8" - 5/8")   | 2 x (5/8" - 3/4")   | 2 x (5/8" - 3/4")   | 2 x 7/8"     | 2 x 7/8"     |
|  | Gas                 | 2 x (11/8" - 11/8") | 2 x (11/8" - 11/8") | 2 x (11/8" - 13/8") | 2 x (11/8" - 15/8") | 2 x 1 - 5/8" | 2 x 1 - 5/8" |
| Cooling distances (Max. Vert.) D2 / D1 |                     | 15                  | 15                  | 15                  | 15                  | 15           | 15           |
| Cooling distances                      | Total Vert. + horiz | 10/30               | 10/30               | 10/30               | 10/30               | 25           | 25           |
| Max. number of bends                   |                     | 12                  | 12                  | 12                  | 12                  | 12           | 12           |

(\*) Maximum distances between units 30 m for the two diameters of the connection pipe that are shown. Use the smaller one up to a distance of 10 m and the larger one for distances between 10 and 30 m.

## TECHNICAL DATA

### COMPACTAIR - WITH SCROLL COMPRESSOR R-407C, COOLING ONLY + HEAT PUMP 1-CIRCUIT UNITS

| COOLING ONLY MODEL                |            | LVCK 22E        | LVCK 24E        | LVCK 28E        | LVCK 32E        | LVCK 38E        |
|-----------------------------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| COOLING ONLY INDOOR UNIT          |            | LECK 22E        | LECK 24E        | LECK 28E        | LECK 32E        | LECK 38E        |
| COOLING ONLY OUTDOOR UNIT         |            | KVCK 22E        | KVCK 24E        | KVCK 28E        | KVCK 32E        | KVCK 38E        |
| Cooling capacity                  | W          | 20.000          | 22.000          | 26.500          | 29.700          | 37.800          |
| Power input                       | kW         | 8,9             | 9,8             | 11,5            | 13,2            | 15,9            |
| HEAT PUMP MODEL                   |            | LVHK 22E        | LVHK 24E        | LVHK 28E        | LVHK 32E        | LVHK 38E        |
| INDOOR UNIT                       |            | LEHK 22E        | LEHK 24E        | LEHK 28E        | LEHK 32E        | LEHK 38E        |
| OUTDOOR UNIT                      |            | KVHK 22E        | KVHK 24E        | KVHK 28E        | KVHK 32E        | KVHK 38E        |
| Capacity                          | Cooling W  | 20.000          | 22.000          | 26.500          | 29.700          | 37.800          |
|                                   | Heating W  | 20.200          | 22.500          | 27.000          | 30.300          | 36.900          |
| P. consumption, Heat Pump         | Cooling kW | 8,9             | 9,8             | 11,5            | 13,2            | 15,9            |
|                                   | Heating kW | 7,7             | 8,6             | 10              | 11,5            | 13,6            |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 40/21,9         | 38,9/23,2       | 46/26,5         | 52,7/29         | 62,1/35,4       |
| Starting current                  | A          | 193/104         | 181/103         | 225/125         | 241/137         | 296/168         |
| INDOOR UNIT COOLING ONLY          |            | LECK 22E        | LECK 24E        | LECK 28E        | LECK 32E        | LECK 38E        |
| INDOOR UNIT HEAT PUMP             |            | LEHK 22E        | LEHK 24E        | LEHK 28E        | LEHK 32E        | LEHK 38E        |
| Power consumption                 | kW         | 1,3             | 1,4             | 1,5             | 1,8             | 2               |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 4,3/2,5         | 4,3/2,5         | 6,2/3,6         | 6,2/3,6         | 8,8/5,1         |
| Starting current                  | A          | 20,3/12         | 20,3/12         | 32,4/18,7       | 32,4/18,7       | 46,8/27,0       |
| Max/Min air flow                  | m³/h       | 4.600/3.700     | 5.050/4.050     | 5.800/4.600     | 6.900/5.400     | 8.150/6.500     |
| Maximum ESP available             | Pa         | 190             | 190             | 190             | 280             | 260             |
| Condensate drain pipe diameter    |            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            |
| Dimensions (A x L x F)            | mm         | 665x1.285x803   | 665x1.285x803   | 665x1.285x803   | 665x1.285x803   | 665x1.410x803   |
| Net weight                        | kg         | 105             | 105             | 110             | 110             | 145             |
| OUTDOOR UNIT COOL ONLY            |            | KVCK 22E        | KVCK 24E        | KVCK 28E        | KVCK 32E        | KVCK 38E        |
| OUTDOOR UNIT HEAT PUMP            |            | KVHK 22E        | KVHK 24E        | KVHK 28E        | KVHK 32E        | KVHK 38E        |
| Power consumption                 | kW         | 7,6             | 8,4             | 10              | 11,4            | 13,9            |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 32,6/17,6       | 31,5/18,9       | 38,6/22,2       | 43,2/23,5       | 54,7/31,1       |
| Starting current                  | A          | 185/101         | 173/98,3        | 217/120         | 234/128         | 289/164         |
| Max/Min air flow                  | m³/h       | 7.550/5.600     | 7.400/5.600     | 7.300/5.800     | 8.600/6.900     | 10.800/8.600    |
| Maximum ESP available             | Pa         | 110             | 150             | 150             | 110             | 220             |
| Condensate drain pipe diameter    |            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            |
| Dimensions (H x L x D)            | mm         | 1.375x1.285x803 | 1.375x1.285x803 | 1.375x1.285x803 | 1.375x1.285x803 | 1.140x1.410x803 |
| Net weight                        | kg         | 205             | 265             | 275             | 280             | 360             |

### COMPACTAIR - WITH SCROLL COMPRESSOR R-407C, COOLING ONLY + HEAT PUMP 2-CIRCUIT UNITS

| COOLING ONLY MODEL                |            | LVCK 44D        | LVCK 48D        | LVCK 56D        | LVCK 64D        | LVCK 76D        | LVCK 86D        | LVCK 100D       |
|-----------------------------------|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| INDOOR UNIT                       |            | LECK 44D        | LECK 48D        | LECK 56D        | LECK 64D        | LECK 76D        | LECK 86D        | LECK 100D       |
| OUTDOOR UNIT                      |            | KVCK 44D        | KVCK 48D        | KVCK 56D        | KVCK 64D        | KVCK 76D        | KVCK 86D        | KVCK 100D       |
| Cooling capacity                  | W          | 40.000          | 44.000          | 53.000          | 59.400          | 75.600          | 80.000          | 92.000          |
| Power input                       | kW         | 17,9            | 19,4            | 23              | 26,4            | 31,8            | 35,8            | 41,2            |
| HEAT PUMP MODEL                   |            | LVHK 44D        | LVHK 48D        | LVHK 56D        | LVHK 64D        | LVHK 76D        | —               | —               |
| INDOOR UNIT                       |            | LEHK 44D        | LEHK 48D        | LEHK 56D        | LEHK 64D        | LEHK 76D        | —               | —               |
| OUTDOOR UNIT                      |            | KVHK 44D        | KVHK 48D        | KVHK 56D        | KVHK 64D        | KVHK 76D        | —               | —               |
| Capacity                          | Cooling W  | 40.000          | 44.000          | 53.000          | 59.400          | 75.600          | —               | —               |
|                                   | Heating W  | 40.400          | 45.000          | 54.000          | 60.600          | 73.800          | —               | —               |
| Power input                       | Cooling kW | 17,9            | 19,4            | 23              | 26,4            | 31,8            | —               | —               |
|                                   | Heating kW | 15,4            | 17,2            | 20              | 23              | 27,2            | —               | —               |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 77,2/24,2       | 75/44,8         | 89,2/51,4       | 102,6/56,4      | 121,4/69,2      | 151,6/76,8      | 188/94,8        |
| Starting current                  | A          | 230/125         | 217/124         | 268/150         | 291/164         | 355/202         | 500/226         | 410/196         |
| INDOOR UNIT COOLING ONLY          |            | LECK 44D        | LECK 48D        | LECK 56D        | LECK 64D        | LECK 76D        | LECK 86D        | LECK 100D       |
| INDOOR UNIT HEAT PUMP             |            | LEHK 44D        | LEHK 48D        | LEHK 56D        | LEHK 64D        | LEHK 76D        | —               | —               |
| Power input                       | kW         | 2,6             | 2,8             | 3               | 3,6             | 4               | 4,5             | 5,5             |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 8,8/5,1         | 8,8/5,1         | 12,5/7,2        | 12,5/7,2        | 15,7/9,1        | 21,3/11,5       | 23,3/13,5       |
| Starting current                  | A          | 46,8/27,0       | 46,8/27,0       | 64,8/37,4       | 64,8/37,4       | 89,7/51,9       | 132/71          | 144/84          |
| Max/Min air flow                  | m³/h       | 9.200/7.400     | 10.100/8.100    | 11.600/9.200    | 13.800/10.800   | 14.000/11.300   | 17.000/12.500   | 18.000/15.000   |
| Maximum ESP available             | Pa         | 190             | 190             | 190             | 290             | 240             | 300             | 280             |
| Condensate drain pipe diameter    |            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            |
| Dimensions (H x L x D)            | mm         | 665x2.340x803   | 665x2.340x803   | 665x2.340x803   | 665x2.340x803   | 665x2.590x803   | 665x3.140x803   | 665x3.140x803   |
| Net weight                        | kg         | 220             | 220             | 240             | 240             | 265             | 270             | 295             |
| OUTDOOR UNIT COOL ONLY            |            | KVCK 44D        | KVCK 48D        | KVCK 56D        | KVCK 64D        | KVCK 76D        | KVCK 86D        | KVCK 100D       |
| OUTDOOR UNIT HEAT PUMP            |            | KVHK 44D        | KVHK 48D        | KVHK 56D        | KVHK 64D        | KVHK 76D        | —               | —               |
| Power input                       | kW         | 15,3            | 16,6            | 20              | 22,8            | 27,8            | 31,3            | 35,7            |
| Voltage: 50 Hz + neutral + ground | V/f        | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     | 230-400/III     |
| Maximum current                   | A          | 65,2/35,2       | 63/37,8         | 77,2/44,4       | 86,4/47         | 109,4/62,2      | 130,3/65,3      | 164,7/81,3      |
| Starting current                  | A          | 218/118         | 205/117         | 256/143         | 279/157         | 343/195         | 500/226         | 410/196         |
| Max/Min air flow                  | m³/h       | 15.100/11.200   | 14.800/11.200   | 14.600/11.600   | 17.200/13.800   | 21.600/17.200   | 23.500/19.000   | 26.500/22.000   |
| Maximum ESP available             | Pa         | 110             | 200             | 200             | 170             | 230             | 300             | 280             |
| Condensate drain pipe diameter    |            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            | 3/4"            |
| Dimensions (H x L x D)            | mm         | 1.380x2.340x803 | 1.380x2.340x803 | 1.380x2.340x803 | 1.380x2.340x803 | 1.445x2.590x803 | 1.445x3.140x803 | 1.445x3.140x803 |
| Net weight                        | kg         | 400             | 520             | 540             | 545             | 670             | 850             | 900             |

## TECHNICAL DATA

### COMPACTAIR - WITH SCROLL COMPRESSOR R-22, HEAT PUMP

#### 1-CIRCUIT UNITS

| HEAT PUMP MODEL                   |         |    | LVHA 22E                    | LVHA 24E      | LVHA 28E      | LVHA 32E      | LVHA 38E      |
|-----------------------------------|---------|----|-----------------------------|---------------|---------------|---------------|---------------|
| INDOOR UNIT                       |         |    | LEHA 22E                    | LEHA 24E      | LEHA 28E      | LEHA 32E      | LEHA 38E      |
| OUTDOOR UNIT                      |         |    | KVHA 22E                    | KVHA 24E      | KVHA 28E      | KVHA 32E      | KVHA 38E      |
| Capacity                          | Cooling | W  | 19.700                      | 21.500        | 26.000        | 29.100        | 37.100        |
|                                   | Heating | W  | 20400                       | 22700         | 27.300        | 30.900        | 37.600        |
| Power input                       | Cooling | kW | 8,6                         | 9,4           | 11            | 12,7          | 15,3          |
|                                   | Heating | kW | 7,4                         | 8,3           | 9,2           | 10,7          | 12,5          |
| Voltage: 50 Hz + neutral + ground |         |    | V/f 230-400/III             | 230-400/III   | 230-400/III   | 230-400/III   | 230-400/III   |
| Maximum current                   |         |    | A 36,9/20,1                 | 35,8/21,4     | 44,8/25,8     | 49,4/27,1     | 63,5/36,2     |
| Starting current                  |         |    | A 190/103                   | 178/101       | 224/124       | 240/136       | 297/169       |
| INDOOR UNIT HEAT PUMP             |         |    | LEHA 22E                    | LEHA 24E      | LEHA 28E      | LEHA 32E      | LEHA 38E      |
| Power consumption                 |         |    | kW 1,3                      | 1,4           | 1,5           | 1,8           | 2             |
| Voltage: 50 Hz+neutro+ground      |         |    | V/f 230/III                 | 230/III       | 230-400/III   | 230-400/III   | 230-400/III   |
| Maximum current                   |         |    | A 4,3/2,5                   | 4,3/2,5       | 6,2/3,6       | 6,2/3,6       | 8,8/5,1       |
| Starting current                  |         |    | A 20,3/12                   | 20,3/12       | 32,4/18,7     | 32,4/18,7     | 46,8/27,0     |
| Max/Min air flow                  |         |    | m <sup>3</sup> /h 4600/3700 | 5050/4050     | 5800/4600     | 6900/5400     | 8150/6500     |
| Maximum ESP available             |         |    | Pa 190                      | 190           | 190           | 280           | 260           |
| Condensate drain pipe diameter    |         |    | 3/4"                        | 3/4"          | 3/4"          | 3/4"          | 3/4"          |
| Dimensions (H x L x D)            |         |    | mm 665x1.285x803            | 665x1.285x803 | 665x1.285x803 | 665x1.285x803 | 665x1.410x803 |
| Net weight                        |         |    | kg 105                      | 105           | 110           | 110           | 145           |
| OUTDOOR UNIT HEAT PUMP            |         |    | KVHA 22E                    | KVHA 24E      | KVHA 28E      | KVHA 32E      | KVHA 38E      |
| Cooling mode power input (1)      |         |    | kW 7,3                      | 8             | 9,5           | 10,9          | 13,3          |
| Voltage: 50 Hz+neutral+ground     |         |    | V/f 230-400/III             | 230-400/III   | 230-400/III   | 230-400/III   | 230-400/III   |
| Maximum current                   |         |    | A 32,6/17,6                 | 31,5/18,9     | 38,6/22,2     | 43,2/23,5     | 54,7/31,1     |
| Starting current                  |         |    | A 185/101                   | 173/98,3      | 217/120       | 234/128       | 289/164       |
| Max/Min air flow                  |         |    | m <sup>3</sup> /h 7550/5600 | 7400/5600     | 7300/5800     | 7100/5900     | 10800/8600    |
| Starting current                  |         |    | Pa 110                      | 150           | 150           | 110           | 220           |
| Condensate drain pipe diameter    |         |    | 3/4"                        | 3/4"          | 3/4"          | 3/4"          | 3/4"          |
| Dimensions (HxLxD)                |         |    | mm 1375x1285x803            | 1375x1285x803 | 1375x1285x803 | 1375x1285x803 | 1440x1410x803 |
| Net weight                        |         |    | kg 205                      | 265           | 275           | 280           | 360           |

### COMPACTAIR - WITH SCROLL COMPRESSOR R-22, HEAT PUMP

#### 2-CIRCUIT UNITS

| HEAT PUMP MODEL                   |         |    | LVHA 44D                      | LVHA 48D       | LVHA 56D       | LVHA 64D       | LVHA 76D       | LVHA 86D       | LVHA 100D      |
|-----------------------------------|---------|----|-------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|
| INDOOR UNIT                       |         |    | LEHA 44D                      | LEHA 48D       | LEHA 56D       | LEHA 64D       | LEHA 76D       | LEHA 86D       | LEHA 100D      |
| OUTDOOR UNIT                      |         |    | KVHA 44D                      | KVHA 48D       | KVHA 56D       | KVHA 64D       | KVHA 76D       | KVHA 86D       | KVHA 100D      |
| Capacity                          | Cooling | W  | 39.400                        | 43.000         | 52.000         | 58.200         | 74200          | 80.000         | 92.000         |
|                                   | Heating | W  | 40.800                        | 45.400         | 54.600         | 61.800         | 75.200         | 90.800         | 104.300        |
| Power input                       | Cooling | kW | 17,2                          | 18,7           | 22,1           | 25,4           | 30,6           | 35,8           | 41,2           |
|                                   | Heating | kW | 14,9                          | 16,6           | 18,4           | 21,4           | 25             | 30,5           | 36,1           |
| Voltage: 50 Hz + neutral + ground |         |    | V/f 230-400/III               | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    |
| Maximum current                   |         |    | A 74/40,3                     | 71,8/42,9      | 89,7/51,6      | 98,9/54,2      | 125,1/71,3     | 151,6/76,8     | 188/94,8       |
| Starting current                  |         |    | A 227/123                     | 214/122        | 269/150        | 287/162        | 359/204        | 500/226        | 410/196        |
| INDOOR UNIT HEAT PUMP             |         |    | LEHA 44D                      | LEHA 48D       | LEHA 56D       | LEHA 64D       | LEHA 76D       | LEHA 86D       | LEHA 100D      |
| Cooling mode power input          |         |    | kW 2,6                        | 2,8            | 3              | 3,6            | 4              | 4,5            | 5,5            |
| Voltage: 50 Hz + neutral + ground |         |    | V/f 230-400/III               | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    |
| Maximum current                   |         |    | A 8,8/6,1                     | 8,8/5,1        | 12,5/7,2       | 12,5/7,2       | 15,7/9,1       | 21,3/11,5      | 23,3/13,5      |
| Starting current                  |         |    | A 46,8/27,0                   | 46,8/27,0      | 64,8/37,4      | 64,8/37,4      | 89,7/51,9      | 132/71         | 144/84         |
| Max/Min air flow                  |         |    | m <sup>3</sup> /h 9200/7400   | 10100/8100     | 11600/9200     | 13800/10800    | 14000/11300    | 17.000/12.500  | 18.000/15.000  |
| Starting current                  |         |    | Pa 190                        | 190            | 190            | 290            | 240            | 300            | 280            |
| Condensate drain pipe diameter    |         |    | 3/4"                          | 3/4"           | 3/4"           | 3/4"           | 3/4"           | 3/4"           | 3/4"           |
| Dimensions (H x L x D)            |         |    | mm 665x2.340x803              | 665x2.340x803  | 665x2.340x803  | 665x2.340x803  | 665x2.590x803  | 665x3.140x803  | 665x3.140x803  |
| Net weight                        |         |    | kg 220                        | 220            | 240            | 240            | 265            | 270            | 295            |
| OUTDOOR UNIT HEAT PUMP            |         |    | KVHA 44D                      | KVHA 48D       | KVHA 56D       | KVHA 64D       | KVHA 76D       | KVHA 86D       | KVHA 100D      |
| Cooling mode power input (1)      |         |    | kW 14,6                       | 15,9           | 19,1           | 21,8           | 26,6           | 31,3           | 35,7           |
| Voltage: 50 Hz + neutral + ground |         |    | V/f 230-400/III               | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    | 230-400/III    |
| Maximum current                   |         |    | A 65,2/35,2                   | 63/37,8        | 77,2/44,4      | 86,4/47        | 109,4/62,2     | 130,3/65,3     | 164,7/81,3     |
| Starting current                  |         |    | A 218/118                     | 205/117        | 256/143        | 279/157        | 343/195        | 500/226        | 410/196        |
| Max/Min air flow                  |         |    | m <sup>3</sup> /h 15100/11200 | 14800/11200    | 14600/11600    | 17200/13800    | 21600/17200    | 23500/19000    | 26500/22000    |
| Maximum ESP available             |         |    | Pa 110                        | 200            | 200            | 170            | 230            | 300            | 280            |
| Condensate drain pipe diameter    |         |    | 3/4"                          | 3/4"           | 3/4"           | 3/4"           | 3/4"           | 3/4"           | 3/4"           |
| Dimensions (H x L x D)            |         |    | mm 1380x2.340x803             | 1380x2.340x803 | 1380x2.340x803 | 1380x2.340x803 | 1445x2.590x803 | 1445x3.140x803 | 1445x3.140x803 |
| Net weight                        |         |    | kg 400                        | 520            | 540            | 545            | 670            | 850            | 900            |

(1) At Eurovent Conditions

#### Cooling operation

Indoor air 27°C d.b. - 19°C w.b.  
Outdoor air 35°C w.b. - 24°C w.b.

#### Heating operation

Indoor air 20°C d.b. - 12°C w.b.  
Outdoor air 7°C d.b. - 6°C w.b.