

FCU VISUAL 360° EPURE (VI_EP)
HEATING/COOLING, 4 PIPES (STANDARD) (4T)

| <i>TEMPERATURES</i> | <i>COOLING COIL</i> | <i>HEATING COIL</i> |
|---------------------------------------|---------------------|---------------------|
| <i>Fluid</i> | <i>Water</i> | <i>Water</i> |
| <i>Fluid inlet temperature</i> | <i>9 °C</i> | <i>70 °C</i> |
| <i>Fluid outlet temperature</i> | <i>14 °C</i> | <i>50 °C</i> |
| <i>Recycled air inlet temperature</i> | <i>24 °C</i> | <i>20 °C</i> |
| <i>Recycled air inlet humidity</i> | <i>50 %(RH)</i> | <i>50 %(RH)</i> |

| | | | | | | COOLING COIL | | | | | HEATING COIL | | | | Lp |
|----------------------|-----------|----------|----------|-------------|-----------|--------------|-----------|-----------|-----------|-----------|--------------|-----------|-----------|-----------|--------------|
| <i>SERIE</i> | <i>R#</i> | <i>U</i> | <i>N</i> | <i>Pabs</i> | <i>Qa</i> | <i>Pt</i> | <i>Ps</i> | <i>Ts</i> | <i>Qe</i> | <i>dP</i> | <i>P</i> | <i>Ts</i> | <i>Qe</i> | <i>dP</i> | <i>ISO</i> |
| <i>Size</i> | | Volt | rpm | W | m3/h | W | W | °C | m3/h | kPa | W | °C | m3/h | kPa | <i>or NR</i> |
| 924 HEE | V5 | 7,1 | 535 | 51 | 1100 | 3 840 | 3 580 | 14,3 | 0,658 | 10,1 | 3 220 | 28,9 | 0,142 | 0,977 | 33 |
| | V4 | 6,1 | 480 | 38 | 990 | 3 500 | 3 260 | 14,2 | 0,601 | 8,49 | 3 040 | 29,2 | 0,134 | 0,886 | 31 |
| | V3 | 5,0 | 420 | 24 | 845 | 3 110 | 2 890 | 13,8 | 0,533 | 6,81 | 2 810 | 30,0 | 0,124 | 0,777 | 28 |
| | V2 | 3,9 | 355 | 15 | 700 | 2 640 | 2 480 | 13,4 | 0,453 | 5,03 | 2 550 | 30,9 | 0,112 | 0,659 | 24 |
| | V1 | 2,7 | 290 | 10 | 550 | 2 150 | 1 990 | 13,1 | 0,369 | 3,43 | 2 250 | 32,2 | 0,0990 | 0,534 | 20 |
| 934 HEE | V5 | 7,1 | 535 | 51 | 1090 | 4 770 | 4 250 | 12,4 | 0,818 | 8,75 | 4 040 | 31,2 | 0,178 | 1,47 | 33 |
| | V4 | 6,2 | 485 | 38 | 985 | 4 350 | 3 870 | 12,3 | 0,746 | 7,37 | 3 820 | 31,6 | 0,169 | 1,34 | 32 |
| | V3 | 5,0 | 420 | 24 | 850 | 3 750 | 3 330 | 12,3 | 0,643 | 5,59 | 3 500 | 32,4 | 0,154 | 1,15 | 26 |
| | V2 | 3,9 | 355 | 15 | 710 | 3 090 | 2 760 | 12,3 | 0,530 | 3,90 | 3 130 | 33,2 | 0,138 | 0,947 | 22 |
| | V1 | 2,7 | 290 | 10 | 570 | 2 460 | 2 200 | 12,4 | 0,422 | 2,55 | 2 710 | 34,3 | 0,119 | 0,744 | 18 |
| 934 SP HEE | V5 | 10,0 | 700 | 113 | 1420 | 5 960 | 5 400 | 12,8 | 1,02 | 13,3 | 4 530 | 29,7 | 0,200 | 1,81 | 42 |
| | V4 | 9,1 | 650 | 91 | 1325 | 5 630 | 5 080 | 12,6 | 0,966 | 11,9 | 4 420 | 30,1 | 0,195 | 1,73 | 39 |
| | V3 | 8,2 | 600 | 72 | 1225 | 5 270 | 4 730 | 12,5 | 0,905 | 10,5 | 4 280 | 30,6 | 0,189 | 1,63 | 37 |
| | V2 | 7,3 | 550 | 56 | 1120 | 4 890 | 4 370 | 12,4 | 0,839 | 9,17 | 4 100 | 31,0 | 0,181 | 1,51 | 34 |
| | V1 | 6,5 | 500 | 42 | 1020 | 4 480 | 3 990 | 12,3 | 0,768 | 7,78 | 3 890 | 31,5 | 0,171 | 1,38 | 32 |

CONDITIONS :

- *Assembly: Without / Accessories: Without*
- **Hydraulic installation : 2 separate pumps**
- **Altitude : 0 m / Pressure : 101,3 kPa**
- *Water flow and delta T with all speeds*
- *Results derived from tests as per EN 1397*
- *Electrical supply : 230 V / 1 ph / 50 Hz*
- *Technical description as per brochure N11.47*

ABBREVIATIONS :

- *R# Motor reference (Factory standard wiring in heavy characters)*
- *Qa Air flow*
- *Pt Useful total cooling output*
- *Ps Useful sensible output*
- *P Useful heating capacity*
- *Ts Air outlet temperature*
- *Qe Water flow*
- *dP Water pressure drop*
- *Lp ISO total acoustic pressure*
- *Pabs Useful absorbed*
- *U Motor control voltage*
- *N Rotation speed*

FCU VISUAL 360° EPURE (VI_EP)
HEATING/COOLING, 4 PIPES (STANDARD) (4T)

| | | | Frequencies (Hz) / Levels per octave (dB Lin) | | | | | | Total levels | |
|----------------------|----|------------|-----------------------------------------------|-----|-----|------|------|------|--------------|--------|
| SERIE Size | R# | Qa m3/h | 125 | 250 | 500 | 1000 | 2000 | 4000 | Lw | Lw |
| | | | | | | | | | dB (Lin) | dB (A) |
| 924 HEE | V5 | 1100 | 53 | 54 | 49 | 44 | 41 | 30 | 58 | 51 |
| | V4 | 990 | 50 | 54 | 47 | 39 | 36 | 23 | 56 | 49 |
| | V3 | 845 | 47 | 51 | 44 | 36 | 33 | 20 | 53 | 46 |
| | V2 | 700 | 54 | 45 | 40 | 31 | 26 | 16 | 55 | 43 |
| | V1 | 550 | 52 | 43 | 37 | 18 | 18 | P<15 | 52 | 40 |
| 934 HEE | V5 | 1090 | 52 | 53 | 48 | 42 | 42 | 30 | 56 | 50 |
| | V4 | 985 | 48 | 54 | 43 | 37 | 35 | 22 | 55 | 48 |
| | V3 | 850 | 52 | 47 | 42 | 36 | 29 | 23 | 54 | 44 |
| | V2 | 710 | 49 | 43 | 39 | 33 | 25 | 19 | 50 | 41 |
| | V1 | 570 | 45 | 40 | 35 | 29 | 22 | 16 | 47 | 37 |
| 934 SP HEE | V5 | 1420 | 60 | 60 | 57 | 53 | 51 | 42 | 65 | 59 |
| | V4 | 1325 | 58 | 58 | 54 | 50 | 48 | 39 | 62 | 56 |
| | V3 | 1225 | 55 | 56 | 52 | 46 | 46 | 33 | 60 | 54 |
| | V2 | 1120 | 52 | 54 | 49 | 43 | 43 | 31 | 57 | 51 |
| | V1 | 1020 | 55 | 52 | 48 | 44 | 40 | 26 | 57 | 50 |

- Electrical supply : 230 V / 1 ph / 50 Hz
- Acoustic output expressed in decibel in relation to 10E-12 Watts

- Lw (Lin) Total acoustic power level
- Lw (A) A-weighted overall sound power level
- R# Motor reference (Factory standard wiring in heavy characters)
- Qa Air flow

The sound power levels in the tables were measured in a reverberant room as per ISO 3743 (in accordance with ISO 23743). The results are given in octave bands of 125 to 4000 Hz in dB (LIN). They are related to the SUM OF SOUND POWER LEVELS generated by :

During testing, the available pressure on the terminal units is simulated using a Mylar covered box as recommended by the INCE (Institute of Noise Control Engineering of the USA)

FCU VISUAL 360° EPURE (VI_EP)
HEATING/COOLING, 4 PIPES (STANDARD) (4T)

| | | | Frequencies (Hz) / Levels per octave (dB Lin) | | | | | | Comfort levels | | |
|----------------------|-----------|-------------------|-----------------------------------------------|------------|------------|-------------|-------------|-------------|----------------|----------------------------|---------------|
| <i>SERIE</i> | R# | Qa m3/h | 125 | 250 | 500 | 1000 | 2000 | 4000 | NC | ISO or NR | dB (A) |
| 924 HEE | V5 | 1100 | 41 | 42 | 37 | 32 | 29 | 18 | 30 | 33 | 39 |
| | V4 | 990 | 38 | 42 | 35 | 27 | 24 | P<15 | 28 | 31 | 37 |
| | V3 | 845 | 35 | 39 | 32 | 24 | 21 | P<15 | 25 | 28 | 34 |
| | V2 | 700 | 42 | 33 | 28 | 19 | P<15 | P<15 | 20 | 24 | 31 |
| | V1 | 550 | 40 | 31 | 25 | P<15 | P<15 | P<15 | 16 | 20 | 28 |
| 934 HEE | V5 | 1090 | 40 | 41 | 36 | 30 | 30 | 18 | 30 | 33 | 38 |
| | V4 | 985 | 36 | 42 | 31 | 25 | 23 | P<15 | 29 | 32 | 36 |
| | V3 | 850 | 40 | 35 | 30 | 24 | 17 | P<15 | 22 | 26 | 32 |
| | V2 | 710 | 37 | 31 | 27 | 21 | P<15 | P<15 | 18 | 22 | 29 |
| | V1 | 570 | 33 | 28 | 23 | 17 | P<15 | P<15 | P<15 | 18 | 25 |
| 934 SP HEE | V5 | 1420 | 48 | 48 | 45 | 41 | 39 | 30 | 39 | 42 | 47 |
| | V4 | 1325 | 46 | 46 | 42 | 38 | 36 | 27 | 36 | 39 | 44 |
| | V3 | 1225 | 43 | 44 | 40 | 34 | 34 | 21 | 34 | 37 | 42 |
| | V2 | 1120 | 40 | 42 | 37 | 31 | 31 | 19 | 31 | 34 | 39 |
| | V1 | 1020 | 43 | 40 | 36 | 32 | 28 | P<15 | 29 | 32 | 38 |

- *Electrical supply : 230 V / 1 ph / 50 Hz*
- *Acoustic pressure levels per octave band in dB(Lin)*
- *Acoustic pressure expressed in decibel in relation to 2×10^{-5} Pa*
- *dB (A) A-weighted overall sound pressure levels*
- *R# Motor reference (Factory standard wiring in heavy characters)*
- *Qa Air flow*

The sound pressure levels depend of the installation conditions. The levels given above are provided as examples only. We remind you that only sound power levels are comparable and certified.

The A-weighted overall sound pressure levels are obtained with a room and installation attenuation level of:

12 dB.

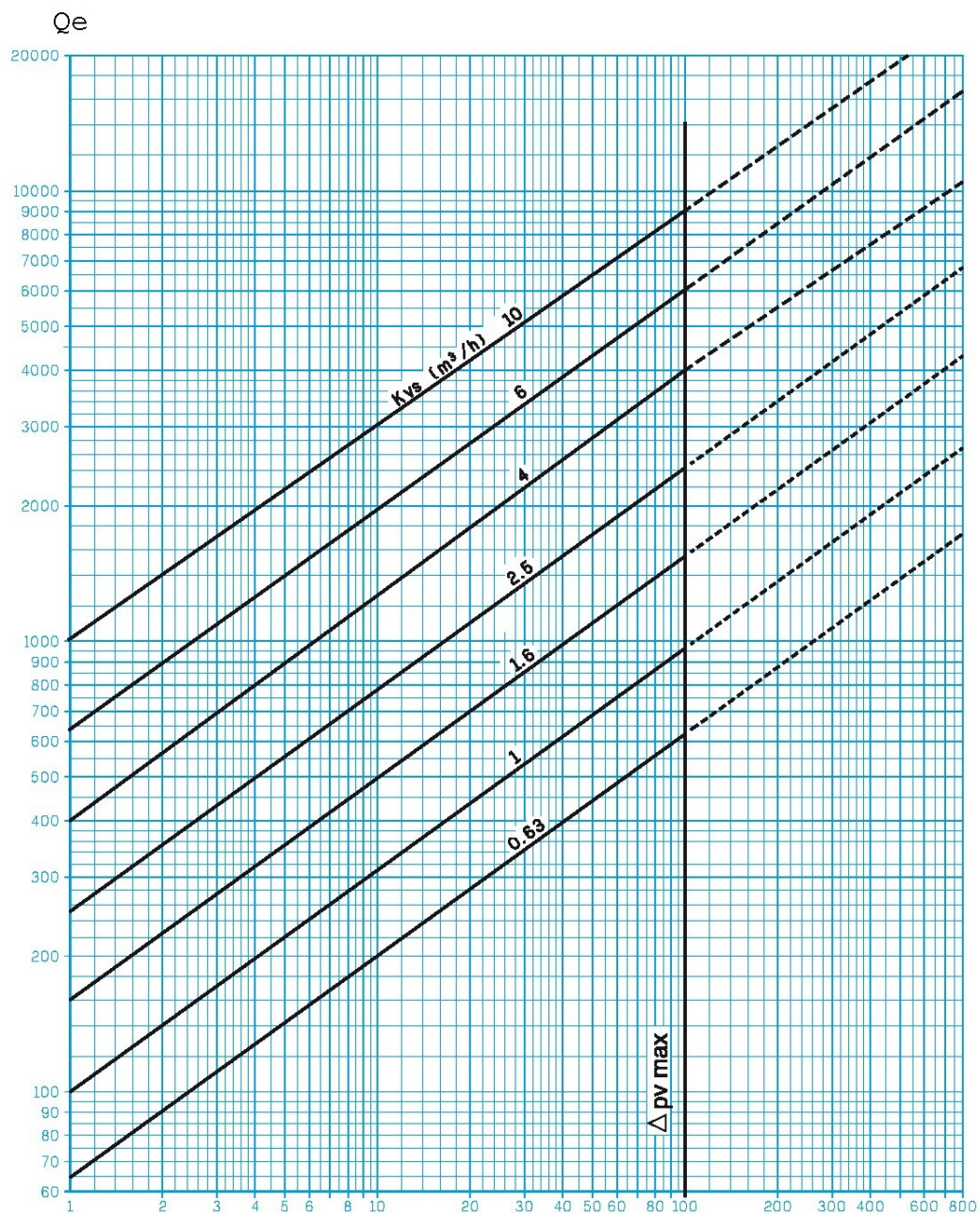
When two identical units are installed in the same room, add 3 dB to the table values in order to obtain the levels produced by both units.

DIMENSIONS AND WEIGHT
COADIS LINE VISUAL 360° Epure (VI_EP)

Drawing not binding

| COADIS LINE | A mm | B mm | C mm | Weight kg |
|---------------------|-----------------|-----------------|-----------------|----------------------|
| 924 / HEE | 900 | 900 | 323 | 47 |
| 934 / HEE | 900 | 900 | 323 | 50 |
| 934 SP / HEE | 900 | 900 | 323 | 50 |

Valve pressure drop, function water flow and Kvs



- Q_e Water flow (l/h)
- dP Water pressure drop (kPa)

Water drop is given for water only. For another liquid $dP = dP_{\text{water}} \times r/1000$ (r : liquid density)

$\Delta p_{v \max}$: Acceptable maximum differential pressure on the valves on all the modes.