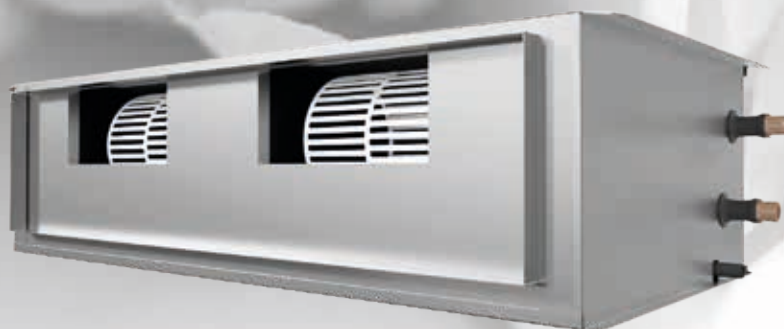




SOFFIO

DUCTABLE
UNIT
70PA



SOMETHING DIFFERENT

GB



SOFFIO

DUCTABLE UNIT 70PA

The units of the "SOFFIO" series are ideal for small centralized air conditioning systems where air distribution in the environment takes place through special ducts. The new range has heights from 300 to 375 mm and has been developed with quality components, with an eye to ease of installation, accessibility and maintenance by the end installer. The high head fans are sized to provide 70 Pa of pressure at the rated flow. SOFFIO is available in versions with single or double panel, horizontal or vertical with AC and EC motor. A wide range of accessories is available with the base units.

LOW-NOISE

AGAINST INDUCED VIBRATIONS. SOUND-ABSORBING INSULATING MATERIAL TH. 10 MM, CLASS HF1 ACCORDING TO THE UL94 STANDARD (SELF-EXTINGUISHING AND NON-DRIPPING). HIGH THICKNESS GALVANISED SHEET PANELS. 1.00-1.50 mm.

ADVANCED CONTROL

ENABLES TO MANAGE MASTER/SLAVE COMBINATIONS OF UP TO 24 UNITS AND TO USE WALL MOUNTED OR REMOTE CONTROLS.

EASY MAINTENANCE

THE FILTER IS REMOVABLE FROM THE BOTTOM OR FROM THE SIDES, WITHOUT ANY TOOLS. THE INTERNAL COMPONENTS AND ELECTRICAL AND ELECTRONIC DEVICES ARE EASILY ACCESSIBLE AND IT IS NOT NECESSARY TO DISCONNECT THE DUCTING.

EXCHANGER WITH EXTRA HIGH EFFICIENCY

THE EXCHANGERS ARE OF THE CU/AL 3/8" DIAMETER TYPE WITH HIGHLY EFFICIENT CORRUGATED ALUMINIUM FINS AND EASILY ACCESSIBLE AIR VENT VALVES. NOMINAL PRESSURE PN8. THE SOFFIO SERIES ALSO WORKS WITH R410A DIRECT EXPANSION COILS.

FLEXIBILITY

POSSIBILITY OF CHANGING THE HYDRAULIC CONNECTIONS SIDE ON SITE.

BMS COMPATIBLE

POSSIBILITY OF CONTROLLING UP TO 240 UNITS WITHOUT DATA LOGGER WITH TOP3 AND SP3 AND MODBUS PROTOCOL.

ENERGY SAVING

THE EC MOTOR ALLOWS THE SPEED OF THE FAN UNIT TO BE ACCURATELY MODULATED AND LIMITS THE ENERGY INPUT TO THE ACTUAL WORKLOAD REQUIRED, WITHOUT UNNECESSARY WASTE.



COOLING

2.8/17.1 kw



HEATING

3.0/20.8 kw



AIR FLOW

500-4090 m³/h



CONSUMPTION REDUCED UP TO

20%



SOLUTIONS FOR COMPLETE AIR TREATMENT

THE SOFFIO SERIES WITH ITS 70PA HEAD IS IDEALLY SUITABLE FOR MEDIUM-LARGE ENVIRONMENTS SUCH AS OFFICE BUILDINGS, STORES, PRACTICES, CLINICS. FOR LARGER-SURFACE INSTALLATIONS, THE 150 PA SOFFIO HP VERSION IS AVAILABLE. WIDE RANGE OF ACCESSORIES SUPPLIED WITH THE MACHINE.

VERSIONS: VERTICAL AND HORIZONTAL

The ductable unit of the SOFFIO series has a wide range of optional accessories: filters, plenums, flanges and hydraulic accessories. (See the accessories section of the technical manual.)

The SOFFIO units are available in the following versions: single panel and double panel, with traditional three-speed motor (AC) and with low consumption motor (EC).



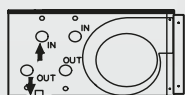
VC
VERTICAL
FRONT INTAKE



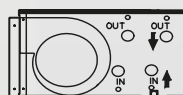
VD
VERTICAL INTAKE
IN LINE WITH THE DELIVERY

CONNECTORS FOR COIL

LEFT-HAND



RIGHT-HAND



The arrows indicate the IN and OUT ends of the main coil.

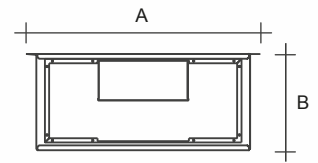


HC
HORIZONTAL INTAKE
IN LINE WITH THE DELIVERY

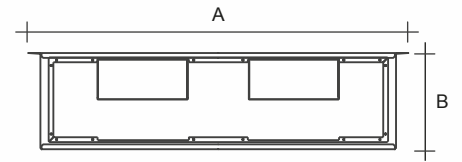
DIMENSIONAL

SINGLE PANEL

| SIZE | HORIZONTAL - HC SP | | | | VERTICAL - VC SP | | | | WEIGHT + COIL 1 RAW | WEIGHT + COIL 2 ROW |
|-----------|--------------------|-----|-----|------------------|------------------|-----|-----|------------------|---------------------------|---------------------------|
| | A | B | C | WEIGHT 3 ROWS | A | B | C | WEIGHT 3 ROWS | | |
| 21 | 738 | 300 | 550 | 38 | 740 | 700 | 320 | 40 | 2 | 4 |
| 31 | 1178 | 300 | 550 | 54 | 1180 | 700 | 320 | 57 | 3 | 6 |
| 38 | 1178 | 300 | 550 | 55 | 1180 | 700 | 320 | 58 | 3 | 6 |
| 41 | 1728 | 375 | 650 | 90 | 1730 | 900 | 375 | 94 | 4 | 8 |
| 81 | 1728 | 375 | 650 | 94 | 1730 | 900 | 375 | 98 | 4 | 8 |



SOFFIO 21



SOFFIO 31 - 38 - 41 - 81

A = length mm
B = height mm
C = depth mm

MODEL IDENTIFICATION

| | | | | | | |
|----------|-----------|-----------|-----------|----------|--------------------|-----------|
| S | 31 | HC | SP | 4 | RX* | EC |
| MODEL | SIZE | VERSION | PANEL | ROWS | CONNECTION SIDE | MOTOR |

SP - SINGLE PANEL / DP - DOUBLE PANEL
RX - RIGHT-HAND / LX - LEFT-HAND
FRONT, AIR DELIVERY
*** STANDARD CONNECTION ON THE RIGHT**



SOFFIO AC



AC MOTOR

2-PIPE SYSTEM WITH 3-ROW COIL

NOT EUROVENT *

| | | 21 | | | 31 | | | 38 | | | 41 | | | 81 | | |
|-------------------|-------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| SPEED (E) | | min | med | max | min | med | max | min | med | max | min | med | max | min | med | max |
| Air flow rate (E) | m ³ /h | 500 | 750 | 850 | 1350 | 1500 | 1580 | 1600 | 1850 | 2000 | 2400 | 2740 | 3075 | 3000 | 3550 | 3950 |
| Head (E) | Pa | 23 | 50 | 65 | 41 | 50 | 56 | 38 | 50 | 59 | 37 | 50 | 62 | 37 | 50 | 70 |

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

| | | | | | | | | | | | | | | | | |
|------------------------|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Total capacity (E) | kW | 2.81 | 3.63 | 3.92 | 6.69 | 7.13 | 7.35 | 7.40 | 8.06 | 8.41 | 12.38 | 13.52 | 14.46 | 14.26 | 15.70 | 16.72 |
| Sensitive capacity (E) | kW | 2.25 | 3.02 | 3.29 | 5.50 | 5.93 | 6.15 | 6.20 | 6.85 | 7.20 | 10.10 | 11.12 | 11.99 | 11.87 | 13.30 | 14.32 |
| Water flow rate | l/h | 483 | 625 | 674 | 1150 | 1226 | 1264 | 1274 | 1385 | 1447 | 2134 | 2317 | 2484 | 2452 | 2701 | 2866 |
| Δp (water) (E) | kPa | 9.9 | 15.6 | 17.8 | 17.0 | 19.0 | 20.0 | 20.3 | 23.5 | 25.4 | 18.9 | 21.8 | 24.8 | 24.9 | 31.1 | 37.1 |

HEATING - air 20 °C - water inlet 45 °C, outlet 40 °C

| | | | | | | | | | | | | | | | | |
|-----------------|-----|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| Capacity (E) | kW | 3.18 | 4.30 | 4.69 | 7.79 | 8.40 | 8.72 | 8.80 | 9.72 | 10.25 | 14.28 | 15.70 | 17.11 | 16.81 | 18.86 | 20.41 |
| Water flow rate | l/h | 552 | 742 | 811 | 1348 | 1454 | 1507 | 1522 | 1682 | 1773 | 2475 | 2724 | 2956 | 2907 | 3267 | 3524 |
| Δp (water) (E) | kPa | 9.51 | 16.1 | 18.8 | 17.1 | 19.5 | 20.8 | 21.1 | 25.2 | 27.7 | 18.8 | 22.1 | 25.6 | 25.9 | 33.6 | 41.6 |

MOTOR ELECTRIC POWER DRAW

| | | | | | | | | | | | | | | | | |
|----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Power draw (E) | W | 100 | 140 | 165 | 195 | 207 | 230 | 243 | 275 | 308 | 411 | 486 | 540 | 680 | 750 | 920 |
| Max power draw | A | 0.8 | | | 1.3 | | | 1.6 | | | 2.5 | | | 4.5 | | |

SOUND DATA

| | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Return + radiated sound power (E) | dB(A) | 42 | 52 | 56 | 59 | 62 | 63 | 57 | 60 | 62 | 61 | 64 | 67 | 64 | 69 | 72 |
| Delivery sound power (E) | dB(A) | 48 | 59 | 63 | 61 | 64 | 66 | 63 | 66 | 68 | 64 | 68 | 71 | 68 | 73 | 76 |
| Return + radiated sound pressure (**) | dB(A) | 33 | 43 | 47 | 50 | 53 | 54 | 48 | 51 | 53 | 52 | 55 | 58 | 55 | 60 | 63 |
| Delivery sound pressure (**) | dB(A) | 39 | 50 | 54 | 52 | 55 | 57 | 54 | 57 | 59 | 55 | 59 | 62 | 59 | 64 | 67 |

AC MOTOR

4-PIPE SYSTEM WITH 3-ROW COIL AND AUXILIARY 1 ROW COIL

NOT EUROVENT *

| | | 21 | | | 31 | | | 38 | | | 41 | | | 81 | | |
|-------------------|-------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
| Speed (E) | | min | med | max | min | med | max | min | med | max | min | med | max | min | med | max |
| Air flow rate (E) | m ³ /h | 500 | 750 | 850 | 1350 | 1500 | 1580 | 1600 | 1850 | 2000 | 2400 | 2740 | 3075 | 3000 | 3550 | 3950 |
| Head (E) | Pa | 23 | 50 | 65 | 41 | 50 | 56 | 38 | 50 | 59 | 37 | 50 | 62 | 37 | 50 | 70 |

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

| | | | | | | | | | | | | | | | | |
|------------------------|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Total capacity (E) | kW | 2.81 | 3.63 | 3.92 | 6.69 | 7.13 | 7.35 | 7.40 | 8.06 | 8.41 | 12.38 | 13.52 | 14.46 | 14.26 | 15.70 | 16.72 |
| Sensitive capacity (E) | kW | 2.25 | 3.02 | 3.29 | 5.50 | 5.93 | 6.15 | 6.20 | 6.85 | 7.20 | 10.12 | 11.12 | 11.99 | 11.87 | 13.30 | 14.32 |
| Water flow rate | l/h | 483 | 625 | 674 | 1150 | 1226 | 1264 | 1274 | 1385 | 1447 | 2134 | 2317 | 2484 | 2452 | 2701 | 2866 |
| Δp (water) (E) | kPa | 9.9 | 15.6 | 17.8 | 17.0 | 19.0 | 20.0 | 20.3 | 23.5 | 25.4 | 18.9 | 21.8 | 24.8 | 24.9 | 31.1 | 37.1 |

HEATING - air 20 °C - water inlet 65°C, outlet 55°C

| | | | | | | | | | | | | | | | | |
|-----------------|-----|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| Capacity (E) | kW | 2.63 | 3.32 | 3.58 | 6.23 | 6.52 | 6.73 | 6.77 | 7.37 | 7.71 | 11.77 | 12.54 | 13.41 | 13.18 | 14.61 | 15.50 |
| Water flow rate | l/h | 229 | 290 | 312 | 543 | 569 | 586 | 591 | 642 | 671 | 1025 | 1090 | 1167 | 1154 | 1271 | 1351 |
| Δp (water) (E) | kPa | 1.9 | 2.8 | 3.2 | 4.3 | 4.6 | 4.9 | 4.9 | 5.7 | 6.2 | 5.8 | 6.5 | 7.3 | 7.1 | 8.5 | 9.6 |

MOTOR ELECTRIC POWER DRAW

| | | | | | | | | | | | | | | | | |
|----------------|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Power draw (E) | W | 100 | 140 | 165 | 175 | 195 | 230 | 243 | 275 | 308 | 411 | 486 | 540 | 680 | 750 | 920 |
| Max power draw | A | 0.8 | | | 1.3 | | | 1.6 | | | 2.5 | | | 4.5 | | |

SOUND DATA

| | | | | | | | | | | | | | | | | |
|---------------------------------------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Return + radiated sound power (E) | dB(A) | 42 | 53 | 59 | 59 | 63 | 67 | 57 | 61 | 65 | 61 | 65 | 70 | 64 | 69 | 72 |
| Delivery sound power (E) | dB(A) | 48 | 60 | 66 | 61 | 65 | 69 | 63 | 67 | 71 | 64 | 69 | 74 | 68 | 73 | 76 |
| Return + radiated sound pressure (**) | dB(A) | 33 | 43 | 47 | 50 | 53 | 54 | 48 | 51 | 53 | 52 | 55 | 58 | 55 | 60 | 63 |
| Delivery sound pressure (**) | dB(A) | 39 | 50 | 54 | 52 | 55 | 57 | 54 | 57 | 59 | 55 | 59 | 62 | 59 | 64 | 67 |

(E) = EUROVENT certified performance

(*) = size 81 is not part of any EUROVENT certification program

(**) = Values given as a guideline for units with non-ducted inlet and with ducted outlet and for room and installation attenuation of 12 dB (size 21 to 38) and 14 dB (size 41 to 81).

SOFFIO EC



EC MOTOR 2-PIPE SYSTEM WITH 3-ROW COIL

NOT EUROVENT *

| | | 21 | | | 38 | | | 81 | | |
|---------------------------|-------------------|-----|-----|-----|------|------|------|------|------|------|
| SPEED (DRIVE VOLTAGE) (E) | V | 3 | 5 | 10 | 5 | 7 | 10 | 5 | 7 | 10 |
| Air flow rate (E) | m ³ /h | 550 | 850 | 950 | 1210 | 1550 | 1780 | 2970 | 3550 | 4090 |
| Head (E) | Pa | 20 | 50 | 79 | 30 | 50 | 68 | 35 | 50 | 70 |

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

| | | | | | | | | | | |
|------------------------|-----|------|------|------|------|------|------|-------|-------|-------|
| Total capacity (E) | kW | 2.98 | 3.92 | 4.18 | 6.25 | 7.26 | 7.91 | 14.14 | 15.70 | 17.06 |
| Sensitive capacity (E) | kW | 2.42 | 3.29 | 3.55 | 5.09 | 6.07 | 6.70 | 11.77 | 13.30 | 14.61 |
| Water flow rate | l/h | 514 | 674 | 719 | 1074 | 1250 | 1359 | 2433 | 2701 | 2923 |
| Δp (water) (E) | kPa | 11.0 | 17.8 | 19.9 | 15.0 | 20.3 | 23.5 | 23.8 | 28.7 | 32.9 |

HEATING - air 20 °C - water inlet 45 °C, outlet 40 °C

| | | | | | | | | | | |
|-----------------|-----|------|------|------|------|------|------|-------|-------|-------|
| Capacity (E) | kW | 3.40 | 4.69 | 5.07 | 7.20 | 8.61 | 9.52 | 16.68 | 18.86 | 20.82 |
| Water flow rate | l/h | 592 | 811 | 876 | 1246 | 1490 | 1646 | 2884 | 3267 | 3595 |
| Δp (water) (E) | kPa | 10.8 | 18.8 | 21.5 | 14.9 | 21.1 | 25.2 | 24.5 | 30.5 | 36.1 |

MOTOR ELECTRIC POWER DRAW

| | | | | | | | | | | |
|----------------|---|-----|----|-----|-----|-----|-----|-----|-----|-----|
| Power draw (E) | W | 26 | 95 | 169 | 80 | 160 | 245 | 312 | 510 | 770 |
| Max power draw | A | 1.3 | | | 1.7 | | | 3.8 | | |

SOUND DATA

| | | | | | | | | | | |
|---------------------------------------|-------|----|----|----|----|----|----|----|----|----|
| Return + radiated sound power (E) | dB(A) | 49 | 58 | 62 | 57 | 62 | 65 | 66 | 71 | 73 |
| Delivery sound power (E) | dB(A) | 53 | 63 | 69 | 59 | 65 | 68 | 70 | 74 | 77 |
| Return + radiated sound pressure (**) | dB(A) | 40 | 49 | 53 | 48 | 53 | 56 | 57 | 62 | 64 |
| Delivery sound pressure (**) | dB(A) | 44 | 53 | 57 | 50 | 56 | 59 | 61 | 65 | 68 |

EC MOTOR 4-PIPE SYSTEM WITH 3-ROW COIL AND AUXILIARY 1 ROW COIL

NOT EUROVENT *

| | | 21 | | | 38 | | | 81 | | |
|---------------------------|-------------------|-----|-----|-----|------|------|------|------|------|------|
| SPEED (DRIVE VOLTAGE) (E) | V | 3 | 5 | 10 | 5 | 7 | 10 | 5 | 7 | 10 |
| Air flow rate (E) | m ³ /h | 550 | 850 | 950 | 1210 | 1550 | 1780 | 2970 | 3550 | 4090 |
| Head (E) | Pa | 20 | 50 | 130 | 30 | 50 | 68 | 35 | 50 | 70 |

COOLING - air 27°C dry bulb, 19°C wet bulb - water inlet 7°C, outlet 12°C

| | | | | | | | | | | |
|------------------------|-----|------|------|------|------|------|------|-------|-------|-------|
| Total capacity (E) | kW | 2.98 | 3.92 | 4.18 | 6.25 | 7.26 | 7.91 | 14.14 | 15.70 | 17.06 |
| Sensitive capacity (E) | kW | 2.42 | 3.29 | 3.55 | 5.09 | 6.07 | 6.70 | 11.77 | 13.30 | 14.61 |
| Water flow rate | l/h | 514 | 674 | 719 | 1074 | 1250 | 1359 | 2433 | 2701 | 2923 |
| Δp (water) (E) | kPa | 11.0 | 17.8 | 19.9 | 15.0 | 20.3 | 23.5 | 23.8 | 28.7 | 32.9 |

HEATING - air 20 °C - water inlet 65°C, outlet 55°C

| | | | | | | | | | | |
|-----------------|-----|------|------|------|------|------|------|-------|-------|-------|
| Capacity (E) | kW | 2.79 | 3.58 | 3.82 | 5.83 | 6.63 | 7.21 | 13.08 | 14.61 | 15.81 |
| Water flow rate | l/h | 243 | 312 | 332 | 509 | 578 | 628 | 1145 | 1271 | 1378 |
| Δp (water) (E) | kPa | 2.1 | 3.2 | 3.6 | 3.8 | 4.9 | 5.7 | 7.1 | 8.5 | 9.8 |

MOTOR ELECTRIC POWER DRAW

| | | | | | | | | | | |
|----------------|---|-----|----|-----|-----|-----|-----|-----|-----|-----|
| Power draw (E) | W | 26 | 95 | 169 | 80 | 160 | 245 | 312 | 510 | 770 |
| Max power draw | A | 1.3 | | | 1.7 | | | 3.8 | | |

SOUND DATA

| | | | | | | | | | | |
|---------------------------------------|-------|----|----|----|----|----|----|----|----|----|
| Return + radiated sound power (E) | dB(A) | 49 | 58 | 62 | 57 | 62 | 65 | 66 | 71 | 73 |
| Delivery sound power (E) | dB(A) | 53 | 63 | 69 | 59 | 65 | 68 | 70 | 74 | 77 |
| Return + radiated sound pressure (**) | dB(A) | 40 | 49 | 53 | 48 | 53 | 56 | 57 | 62 | 64 |
| Delivery sound pressure (**) | dB(A) | 44 | 53 | 57 | 50 | 56 | 59 | 61 | 65 | 68 |

(E) = EUROVENT certified performance

(*) = size 81 is not part of any EUROVENT certification program

(**) = Values given as a guideline for units with non-ducted inlet and with ducted outlet and for room and installation attenuation of 12 dB (size 21 to 38) and 14 dB (size 41 to 81).

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