

# BROCHURE

Low Static Blower

**ThermalTrue®**  
HVAC & R

**Direct Expansion Series SBL10\_60DX**





**NOMENCLATURE**

| SBL    | 10, 15, 20, 25, 30, 40, 50, 60 | X407                         | SA/HA/CA                                                                  | PSC/HMF/ECF                                                                |
|--------|--------------------------------|------------------------------|---------------------------------------------------------------------------|----------------------------------------------------------------------------|
| Series | Capacity in kBtu/h             | Direct<br>Expansion<br>R407c | SA : Std Ambient 35°C<br>HA : High Ambient 45°C<br>CA : Corrosive Ambient | PSC : Permanent Squirrel<br>Cage Motor<br>HMF : BLDC Motor<br>ECF : EC Fan |



## SPECIFICATION

| DUCTED SPLIT (LOW STATIC)<br>DX 407 SERIES |                         |        | Indoor                                                     | SBL10DX   | SBL15DX   | SBL20DX   | SBL25DX |
|--------------------------------------------|-------------------------|--------|------------------------------------------------------------|-----------|-----------|-----------|---------|
|                                            |                         |        | Outdoor                                                    | SCU10L    | SCU15L    | SCU20L    | SCU25L  |
| GENERAL DATA                               |                         |        |                                                            |           |           |           |         |
| CAPACITY                                   | Total Capacity          | W      | 3.280                                                      | 5.254     | 6.061     | 7.484     |         |
|                                            |                         | Btu/h  | 11.191                                                     | 17.927    | 20.680    | 25.535    |         |
|                                            | Sensible Capacity       | W      | 2.343                                                      | 3.791     | 4.504     | 5.409     |         |
|                                            |                         | Btu/h  | 7.994                                                      | 12.935    | 15.369    | 18.454    |         |
|                                            | SHR                     |        | 0,71                                                       | 0,72      | 0,74      | 0,72      |         |
| AIR FLOW                                   | High                    | CMH    | 510                                                        | 866       | 1.189     | 1.240     |         |
|                                            |                         | CFM    | 300                                                        | 510       | 700       | 730       |         |
|                                            | Medium                  | CMH    | 442                                                        | 748       | 1.156     | 1.224     |         |
|                                            |                         | CFM    | 260                                                        | 440       | 680       | 720       |         |
|                                            | Low                     | CMH    | 374                                                        | 612       | 1.054     | 986       |         |
|                                            |                         | CFM    | 220                                                        | 360       | 620       | 580       |         |
| EXTERNAL STATIC PRESSURE                   |                         | Pa     | 50                                                         |           |           |           |         |
|                                            |                         | inWG   | 0,20                                                       |           |           |           |         |
| CASING                                     | Frame                   |        | Anodised extruded aluminium profile and nylon corner piece |           |           |           |         |
|                                            | Panel                   |        | GI finish                                                  |           |           |           |         |
|                                            | Insulation              |        | 10mm PE                                                    |           |           |           |         |
| DIMENSION                                  | Height                  | mm     | 265                                                        | 265       | 265       | 265       |         |
|                                            | Width                   | mm     | 750                                                        | 890       | 1.055     | 1.190     |         |
|                                            | Depth                   | mm     | 490                                                        | 490       | 490       | 490       |         |
| UNIT WEIGHT                                |                         | kG     | 142                                                        | 149       | 151       | 159       |         |
|                                            |                         | lb     | 313                                                        | 327       | 333       | 351       |         |
| CONNECTION                                 | Liquid                  | in     | 1/4                                                        | 1/4       | 1/4       | 3/8       |         |
|                                            | Gas                     | in     | 3/8                                                        | 1/2       | 5/8       | 5/8       |         |
|                                            | Drain Pipe Size         | in     | 3/4                                                        |           |           |           |         |
| COIL SPECIFICATION                         |                         |        |                                                            |           |           |           |         |
| COIL                                       | Face Area               | m2     | 0,12                                                       | 0,14      | 0,18      | 0,20      |         |
|                                            | Entering (DB/WB)        | °C/°C  | 26.7 / 19.0                                                |           |           |           |         |
|                                            | Leaving (DB/WB)         | °C/°C  | 12.9/12.0                                                  | 13.6/12.4 | 15.3/13.6 | 13.6/12.5 |         |
|                                            | Face Velocity           | m/s    | 1,23                                                       | 1,68      | 1,88      | 1,70      |         |
|                                            | ΔP                      | Pa     | 33                                                         | 56        | 51        | 57        |         |
|                                            | Condensate Rate         | g/s    | 0,40                                                       | 0,60      | 0,60      | 0,80      |         |
| FAN & MOTOR SPECIFICATION                  |                         |        |                                                            |           |           |           |         |
| BLOWER                                     | Type                    |        | Forward Curve Centrifugal Drive Driven                     |           |           |           |         |
|                                            | Size                    |        | 160mm OD x 200mmL (6 x 8)                                  |           |           |           |         |
|                                            | Quantity                | set    | 1                                                          | 1         | 2         | 2         |         |
| POWER SUPPLY                               |                         | V-Ø-Hz | 220-240V/1Ø/50Hz                                           |           |           |           |         |
| MOTOR                                      | 30W-4P                  |        | 1                                                          |           |           |           |         |
|                                            | 50W-4P                  |        |                                                            | 1         |           |           |         |
|                                            | 80W-4P                  |        |                                                            |           | 1         |           |         |
|                                            | 100W-4P                 |        |                                                            |           |           | 1         |         |
|                                            | 320W-4P                 |        |                                                            |           |           |           |         |
|                                            | 400W-4P                 |        |                                                            |           |           |           |         |
|                                            | 480W-4P                 |        |                                                            |           |           |           |         |
|                                            | 600W-4P                 |        |                                                            |           |           |           |         |
| AIR FILTER                                 | PFS353W220H008T-W1S71.1 |        | 1                                                          |           |           |           |         |
|                                            | PFS423W220H008T-W1S71.1 |        |                                                            | 2         |           |           |         |
|                                            | PFS505W220H008T-W1S71.1 |        |                                                            |           | 2         |           |         |
|                                            | PFS573W220H008T-W1S71.1 |        |                                                            |           |           | 2         |         |
|                                            | PFS460W370H008T-W1S71.1 |        |                                                            |           |           |           |         |
|                                            | PFS510W370H008T-W1S71.1 |        |                                                            |           |           |           |         |
|                                            | PFS425W370H008T-W1S71.1 |        |                                                            |           |           |           |         |
|                                            | PFS492W370H008T-W1S71.1 |        |                                                            |           |           |           |         |

| DUCTED SPLIT (LOW STATIC)<br>DX 407 SERIES |                         |       | Indoor                                                     | SBL30DX          | SBL40DX   | SBL50DX   | SBL60DX |
|--------------------------------------------|-------------------------|-------|------------------------------------------------------------|------------------|-----------|-----------|---------|
|                                            |                         |       | Outdoor                                                    | SCU30L           | SCU40L    | SCU50L    | SCU60L  |
| GENERAL DATA                               |                         |       |                                                            |                  |           |           |         |
| CAPACITY                                   | Total Capacity          | W     | 9.422                                                      | 11.411           | 16.073    | 17.020    |         |
|                                            |                         | Btu/h | 32.147                                                     | 38.933           | 54.841    | 58.072    |         |
|                                            | Sensible Capacity       | W     | 6.780                                                      | 8.218            | 11.631    | 12.288    |         |
|                                            |                         | Btu/h | 23.134                                                     | 28.039           | 39.684    | 41.925    |         |
|                                            | SHR                     |       | 0,72                                                       | 0,72             | 0,72      | 0,72      |         |
| AIR FLOW                                   | High                    | CMH   | 1.529                                                      | 1.869            | 2.701     | 2.803     |         |
|                                            |                         | CFM   | 900                                                        | 1.100            | 1.590     | 1.650     |         |
|                                            | Medium                  | CMH   | 1.411                                                      | 1.802            | 2.346     | 2.601     |         |
|                                            |                         | CFM   | 830                                                        | 1.060            | 1.380     | 1.530     |         |
|                                            | Low                     | CMH   | 1.292                                                      | 1.683            | 2.176     | 2.431     |         |
|                                            |                         | CFM   | 760                                                        | 990              | 1.280     | 1.430     |         |
| EXTERNAL STATIC PRESSURE                   |                         |       | Pa                                                         | 150              |           |           |         |
|                                            |                         |       | inWG                                                       | 0,60             |           |           |         |
| CASING                                     | Frame                   |       | Anodised extruded aluminium profile and nylon corner piece |                  |           |           |         |
|                                            | Panel                   |       | GI finish                                                  |                  |           |           |         |
|                                            | Insulation              |       | 10mm PE                                                    |                  |           |           |         |
| DIMENSION                                  | Height                  | mm    | 415                                                        | 415              | 415       | 415       |         |
|                                            | Width                   | mm    | 959                                                        | 1.075            | 1.329     | 1.529     |         |
|                                            | Depth                   | mm    | 630                                                        | 630              | 630       | 630       |         |
| UNIT WEIGHT                                |                         |       | kG                                                         | 169              | 173       | 178       | 183     |
|                                            |                         |       | lb                                                         | 373              | 381       | 393       | 404     |
| CONNECTION                                 | Liquid                  | in    | 3/8                                                        | 3/8              | 3/8       | 1/2       |         |
|                                            | Gas                     | in    | 5/8                                                        | 3/4              | 3/4       | 3/4       |         |
|                                            | Drain Pipe Size         | in    | 3/4                                                        |                  |           |           |         |
| COIL SPECIFICATION                         |                         |       |                                                            |                  |           |           |         |
| COIL                                       | Face Area               | m2    | 0,27                                                       | 0,32             | 0,40      | 0,47      |         |
|                                            | Entering (DB/WB)        | °C/°C | 26.7 / 19.0                                                |                  |           |           |         |
|                                            | Leaving (DB/WB)         | °C/°C | 13.4/12.3                                                  | 13.5/12.4        | 13.8/12.6 | 13.5/12.4 |         |
|                                            | Face Velocity           | m/s   | 1,55                                                       | 1,65             | 1,86      | 1,64      |         |
|                                            | ΔP                      | Pa    | 49                                                         | 54               | 66        | 54        |         |
|                                            | Condensate Rate         | g/s   | 1,00                                                       | 1,30             | 1,80      | 1,90      |         |
| FAN & MOTOR SPECIFICATION                  |                         |       |                                                            |                  |           |           |         |
| BLOWER                                     | Type                    |       | Forward Curve Centrifugal Drive Driven                     |                  |           |           |         |
|                                            | Size                    |       | 200mm OD x 190mmL (8 x 8)                                  |                  |           |           |         |
|                                            | Quantity                | set   | 2                                                          | 2                | 2         | 2         |         |
| POWER SUPPLY                               |                         |       | V-Ø-Hz                                                     | 220-240V/1Ø/50Hz |           |           |         |
| MOTOR                                      | 30W-4P                  |       |                                                            |                  |           |           |         |
|                                            | 50W-4P                  |       |                                                            |                  |           |           |         |
|                                            | 80W-4P                  |       |                                                            |                  |           |           |         |
|                                            | 100W-4P                 |       |                                                            |                  |           |           |         |
|                                            | 320W-4P                 |       | 1                                                          |                  |           |           |         |
|                                            | 400W-4P                 |       |                                                            | 1                |           |           |         |
|                                            | 480W-4P                 |       |                                                            |                  | 1         |           |         |
|                                            | 600W-4P                 |       |                                                            |                  |           | 1         |         |
| AIR FILTER                                 | PFS353W220H008T-W1S71.1 |       |                                                            |                  |           |           |         |
|                                            | PFS423W220H008T-W1S71.1 |       |                                                            |                  |           |           |         |
|                                            | PFS505W220H008T-W1S71.1 |       |                                                            |                  |           |           |         |
|                                            | PFS573W220H008T-W1S71.1 |       |                                                            |                  |           |           |         |
|                                            | PFS460W370H008T-W1S71.1 |       | 2                                                          |                  |           |           |         |
|                                            | PFS510W370H008T-W1S71.1 |       |                                                            | 2                |           |           |         |
|                                            | PFS425W370H008T-W1S71.1 |       |                                                            |                  | 3         |           |         |
|                                            | PFS492W370H008T-W1S71.1 |       |                                                            |                  |           | 3         |         |



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