



## Chilled water module type MVX-BF

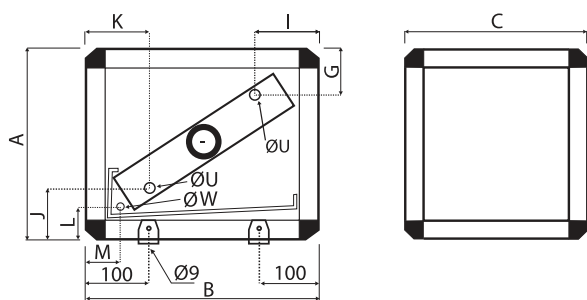
Chilled water module

### Composition

- Coil with copper tubes and aluminum fins
- Hydraulic male piping in steel tube at gas thread
- Purge and empty screw is easily accessible from outside of the module
- Integrated drop separator (separator pressure loss is calculated in the curves)
- Connection : on right (on left on request)
- Position : the module can be fixed horizontally
- Supplied as a separate component, unmounted; factory mounted upon request

| Selection table |      |           |                         |              |              |              |              |              |              |              |
|-----------------|------|-----------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Twr [°C/°C]     |      | Ta,i [°C] | *                       | 400          | 600          | 800          | Qv,a [m³/h]  |              |              |              |
|                 |      |           |                         | 1000         | 1200         | 1400         | 1600         | 1800         | 2000         | 2100         |
| MVX-4 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 3,39/14,5-82 | 4,37/16,4-79 | 5,11/17,7-77 | 5,67/18,8-75 | 6,09/19,6-74 | 6,38/20,3-74 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 580/4,8      | 750/7,5      | 880/9,9      | 970/11,8     | 1040/13,4    | 1090/14,6    | -            |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 3,46/14,4-87 | 4,51/16,1-84 | 5,33/17,3-83 | 5,99/18,2-81 | 6,52/19-80   | 6,94/19,6-80 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 590/5        | 770/7,9      | 910/10,6     | 1030/13      | 1120/15,1    | 1190/16,9    | -            |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 2,59/13,9-86 | 3,3/15,4-83  | 3,82/16,5-82 | 4,21/17,3-81 | 4,5/17,9-80  | 4,69/18,4-79 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 440/3        | 560/4,6      | 650/5,9      | 720/7        | 770/7,9      | 800/8,5      | -            |
| MVX-5 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 7,33/16,4-78 | 8,12/17,2-77 | 8,79/18-76   | 9,35/18,6-75 | 9,82/19,1-74 | 10,2/19,6-74 | 10,4/19,8-74 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1260/15,7    | 1390/18,8    | 1510/21,6    | 1600/24,1    | 1680/26,3    | 1750/28,2    | 1780/29      |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 7,58/16,1-84 | 8,45/16,8-83 | 9,21/17,5-82 | 9,87/18,1-81 | 10,5/18,5-81 | 11,1/19-80   | 11,2/19,2-80 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1300/16,6    | 1450/20,2    | 1580/23,4    | 1690/26,5    | 1790/29,3    | 1880/31,9    | 1920/33,1    |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 5,6/15,3-83  | 6,17/16-82   | 6,65/16,6-81 | 7,05/17-81   | 7,39/17,5-80 | 7,66/17,8-80 | 7,78/18-79   |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 960/9,8      | 1060/11,6    | 1140/13,2    | 1210/14,7    | 1270/15,9    | 1310/17      | 1330/17,4    |
| MVX-6 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 10,7/15,9-79 | 12,4/17,1-77 | 13,7/18,0-76 | 14,8/18,8-75 | 15,7/19,5-74 | 16,2/19,9-74 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1830/13,6    | 2120/17,5    | 2350/21      | 2530/24      | 2680/26,5    | 2770/28      | -            |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 11/15,6-85   | 12,8/16,7-83 | 14,4/17,6-82 | 15,7/18,3-81 | 16,7/18,8-80 | 17,4/19,2-80 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1890/14,3    | 2200/18,7    | 2460/22,8    | 2680/26,5    | 2870/29,8    | 2990/32      | -            |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 8,18/15,0-84 | 9,39/15,9-82 | 10,4/16,6-81 | 11,1/17,2-80 | 11,7/17,7-80 | 12,1/18,1-79 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1400/8,4     | 1610/10,8    | 1770/12,8    | 1910/14,5    | 2010/15,9    | 2070/16,8    | -            |
| MVX-7 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 14,9/16,2-79 | 16,9/17,2-78 | 18,5/18,0-76 | 19,9/18,7-75 | 21,1/19,4-75 | 21,8/19,9-74 | 22,5/20,4-74 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 2550/6,4     | 2890/8       | 3170/9,4     | 3400/10,7    | 3590/11,8    | 3740/12,6    | 3860/13,3    |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 15,3/15,9-85 | 17,5/16,8-83 | 19,4/17,6-82 | 21,1/18,2-81 | 22,3/18,8-81 | 23,5/19,3-80 | 24,5/19,7-80 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 2620/6,8     | 3000/8,6     | 3320/10,2    | 3590/11,8    | 3830/13,2    | 4030/14,4    | 4200/15,5    |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 11,2/15,2-84 | 12,6/16-82   | 13,8/16,7-82 | 14,7/17,2-81 | 15,5/17,7-80 | 16/18,1-80   | 16,5/18,5-79 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 1920/3,9     | 2160/4,8     | 2360/5,6     | 2520/6,3     | 2650/6,9     | 2750/7,3     | 2820/7,7     |
| MVX-8 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 22,3/16,1-79 | 26,1/17,5-77 | 29,1/18,5-76 | 31,4/19,3-75 | 33,1/22-74   | 34,1/20,4-74 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 3810/4,9     | 4480/6,5     | 4990/7,8     | 5380/8,9     | 5670/9,8     | 5840/10,3    | -            |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 22,9/15,9-85 | 27,2/17,1-83 | 30,6/18-82   | 33,5/18,8-81 | 35,7/19,4/80 | 37,2/19,8-80 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 3920/5,1     | 4660/6,9     | 5250/8,6     | 5730/10      | 6120/11,2    | 6370/12      | -            |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 16,7/15,3-84 | 19,4/16,3-82 | 21,5/17,1-81 | 23/17,7-80   | 24,1/18,3-80 | 24,7/18,6-79 | -            |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 2860/2,9     | 3330/3,8     | 3680/4,6     | 3940/5,2     | 4130/5,6     | 4230/5,9     | -            |
| MVX-9 BF        | 7/12 | 32/40     | P [kW] / Ta,o - RH [%]  | 41,3/17-77   | 44,8/17,8-76 | 47,7/18,4-76 | 50,2/18,9-75 | 52,4/19,4-74 | 54,1/19,8-74 | 54,9/20,1-74 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 7070/13,2    | 7670/15,2    | 8180/17,1    | 8610/18,7    | 8970/20,1    | 9270/21,3    | 9400/21,8    |
|                 |      | 30/50     | P [kW] / Ta,o - RH [%]  | 42,8/16,7-83 | 46,8/17,3-82 | 50,2/17,9-82 | 53,3/18,4-81 | 55,9/18,8-80 | 58,3/19,2-80 | 59,3/19,4-80 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 7340/14,1    | 8010/16,5    | 8600/18,7    | 9120/20,7    | 9580/22,5    | 9980/24,2    | 10170/25     |
|                 |      | 27/50     | P [kW] / Ta,o - RH [%]  | 31,2/15,9-82 | 33,7/16,4-82 | 35,8/16,9-81 | 37,6/17,3-80 | 39/17,7-80   | 40,2/18-80   | 40,8/18,2-79 |
|                 |      |           | Qv,w [l/h] / Dp,w [kPa] | 5350/8,1     | 5780/9,2     | 6140/10,3    | 6440/11,2    | 6690/12      | 6890/12,6    | 6980/12,9    |

- Twr = Temperature water regime
- Ta,i = Temperature air before the coil
- P = Total power
- Ta,o = Temperature air after the coil
- RH = Relative humidity
- Qv,w = Water flow
- Dp,w = Water pressure loss



| Dimensions |        |        |        |        |        |        |        |        |        |         |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
|            | A [mm] | B [mm] | C [mm] | G [mm] | I [mm] | J [mm] | K [mm] | L [mm] | M [mm] | ØU [mm] |
| MVX-BF 4   | 445    | 545    | 445    | 90     | 170    | 125    | 170    | 75     | 75     | 1/2     |
| MVX-BF 5   | 545    | 545    | 545    | 95     | 205    | 130    | 175    | 75     | 75     | 3/4     |
| MVX-BF 6   | 645    | 645    | 645    | 95     | 230    | 130    | 175    | 75     | 75     | 3/4     |
| MVX-BF 7   | 745    | 745    | 745    | 95     | 205    | 130    | 175    | 75     | 75     | 1       |
| MVX-BF 8   | 845    | 845    | 970    | 105    | 240    | 140    | 185    | 75     | 75     | 1 1/2   |
| MVX-BF 9   | 945    | 945    | 1170   | 105    | 215    | 140    | 190    | 75     | 75     | 2       |