

General

Provide MYSON IVECTOR hydronic surface mount wall fan convector in size(s) as scheduled. MYSON IVECTOR hydronic surface mount wall fan convectors are ETL approved.

- Each **iVECTOR** is individually programmable
- 24/7 programmer with 1 hour time periods
- Night set-back function
- Lockable LCD backlit display
- Option to link to a building management system (BMS)
- The controller will also automatically select and vary the fan speeds as required, depending on the current room temperature and the required temperature set by the user.
- The unit is fitted with a washable air filter that can be easily removed for cleaning.
- This heater/cooler fan convector is designed for use on central heating systems or heating and cooling systems in homes and commercial environments. Models are available with 2 and 4-pipe connections.
- The control system provides thermostatic room temperature and fan speed control, and allows operation on a stand alone basis, or by integration into building management systems.
- A range of accessories are available for this product including control valves and condensate pumps for cooling installations.
- Heavy gauge modern exterior cabinet epoxy polyester powder coated to RAL 9016 white.

Each IVECTOR hydronic surface mount wall fan convector is engineered for quiet efficiency. The chassis is manufactured from zinc-coated painted steel. Fan assemblies are designed for longer life and extremely low noise levels with power fed by a multi-tap transformer allowing for custom fan speed settings. The copper core heat exchanger is designed for fast heat transfer.

Standard Connections:

2 or 4 Female 3/4" B.S.P. Threads

Electrical Specifications:

120 Vac 60 Hz

Maximum positive operating pressure: 145psi

Maximum operating temperature: 200° F

Available Finish

White



Quality certificates



Warranty:

Heat Exchanger - 10 Years
Fan Assembly - 3 Years
All Other parts - 1 Year

PROJECT NAME:
ARCHITECT:
ENGINEER:
SUBMITTED DATE:

APPROVED DATE:

APPROVED



**IVECTOR SURFACE
MOUNT FAN CONVECTOR**

iVector Fan Convector

Performance Data 2-Pipe

| Model | Fan Speed | Flow (gpm) | Heat Output (Btu/h) | | | | | | | | | | Cooling (Btu/h) | |
|----------|-----------|------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|----------|
| | | | Entering Water - 65°F Air Temperature | | | | | | | | | | Condition 45-54-81 | |
| | | | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | Total | Sensible |
| iV60x080 | Normal | 1.5 | 3051 | 3791 | 4543 | 5304 | 6073 | 6850 | 7634 | 8423 | 9219 | 10020 | 2412 | 1798 |
| | Medium | 1.5 | 4023 | 4998 | 5988 | 6990 | 8003 | 9026 | 10058 | 11098 | 12146 | 13200 | 3842 | 2829 |
| | Boost | 1.5 | 5402 | 6709 | 8035 | 9377 | 10733 | 12102 | 13483 | 14874 | 16275 | 17684 | 5623 | 4187 |
| iV60x100 | Normal | 2 | 4176 | 5190 | 6218 | 7260 | 8313 | 9377 | 10450 | 11531 | 12620 | 13716 | 3450 | 2569 |
| | Medium | 2 | 5487 | 6817 | 8167 | 9533 | 10915 | 12310 | 13717 | 15134 | 16562 | 17999 | 5459 | 4019 |
| | Boost | 2 | 7482 | 9291 | 11126 | 12984 | 14862 | 16757 | 18668 | 20593 | 22532 | 24483 | 7861 | 5855 |
| iV60x120 | Normal | 2.65 | 5038 | 6261 | 7503 | 8761 | 10033 | 11317 | 12613 | 13919 | 15234 | 16559 | 5186 | 3177 |
| | Medium | 2.65 | 6708 | 8334 | 9984 | 11655 | 13345 | 15051 | 16771 | 18505 | 20251 | 22009 | 6688 | 4920 |
| | Boost | 2.65 | 9564 | 11876 | 14222 | 16597 | 18996 | 21419 | 23862 | 26323 | 28801 | 31295 | 9956 | 7414 |
| iV60x140 | Normal | 3.1 | 5923 | 7361 | 8821 | 10299 | 11795 | 13305 | 14829 | 16364 | 17911 | 19468 | 5084 | 3787 |
| | Medium | 3.1 | 7933 | 9856 | 11807 | 13783 | 15781 | 17798 | 19832 | 21882 | 23947 | 26025 | 7916 | 5824 |
| | Boost | 3.1 | 11539 | 14329 | 17158 | 20023 | 22918 | 25840 | 28787 | 31755 | 34744 | 37753 | 12055 | 8977 |
| iV60x160 | Normal | 3.5 | 6828 | 8486 | 10169 | 11874 | 13597 | 15338 | 17094 | 18864 | 20646 | 22441 | 5899 | 4395 |
| | Medium | 3.5 | 9157 | 11377 | 13630 | 15911 | 18217 | 20546 | 22895 | 25262 | 27646 | 30046 | 9141 | 6728 |
| | Boost | 3.5 | 13510 | 16776 | 20089 | 23443 | 26832 | 30253 | 33702 | 37178 | 40677 | 44199 | 14150 | 10536 |

Heat outputs tested in accordance with BS 4856 Part 1. Relative Humidity: Sensible cooling at 50%.
Cooling performance tested in accordance with BS 4856 Part 2. Relative humidity 50%.

Performance Data 4-Pipe

| Model | Fan Speed | Flow (l/h) | Heat Output (Btu/h) | | | | | | | | | | Cooling (Btu/h) | | |
|----------|-----------|------------|---------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------------|-------|----------|
| | | | Entering Water - 65°F Air Temperature | | | | | | | | | | Condition 45-54-81 | | |
| | | | 110 | 120 | 130 | 140 | 150 | 160 | 170 | 180 | 190 | 200 | Flow (l/h) | Total | Sensible |
| iV60x080 | Normal | 300 | 2157 | 2681 | 3213 | 3752 | 4296 | 4846 | 5401 | 5961 | 6524 | 7091 | 350 | 2292 | 1708 |
| | Medium | 300 | 2854 | 3546 | 4249 | 4961 | 5681 | 6408 | 7141 | 7880 | 8625 | 9374 | 350 | 3650 | 2687 |
| | Boost | 300 | 3849 | 4782 | 5728 | 6686 | 7655 | 8633 | 9619 | 10613 | 11614 | 12621 | 350 | 5342 | 3977 |
| iV60x100 | Normal | 350 | 2938 | 3652 | 4376 | 5109 | 5850 | 6599 | 7355 | 8116 | 8883 | 9655 | 450 | 3277 | 2441 |
| | Medium | 350 | 3867 | 4804 | 5756 | 6720 | 7694 | 8678 | 9670 | 10671 | 11678 | 12692 | 450 | 5186 | 3818 |
| | Boost | 350 | 5285 | 6564 | 7862 | 9175 | 10503 | 11843 | 13195 | 14557 | 15929 | 17309 | 450 | 7468 | 5562 |
| iV60x120 | Normal | 400 | 3519 | 4373 | 5240 | 6118 | 7006 | 7903 | 8807 | 9719 | 10638 | 11562 | 600 | 4927 | 3018 |
| | Medium | 400 | 4681 | 5816 | 6967 | 8133 | 9311 | 10501 | 11702 | 12911 | 14129 | 15355 | 600 | 6353 | 4674 |
| | Boost | 400 | 6666 | 8277 | 9911 | 11565 | 13237 | 14925 | 16626 | 18340 | 20066 | 21803 | 600 | 9458 | 7044 |
| iV60x140 | Normal | 450 | 4129 | 5131 | 6148 | 7179 | 8221 | 9273 | 10334 | 11404 | 12482 | 13567 | 700 | 4830 | 3598 |
| | Medium | 450 | 5523 | 6861 | 8218 | 9593 | 10983 | 12386 | 13801 | 15227 | 16664 | 18109 | 700 | 7520 | 5533 |
| | Boost | 450 | 8014 | 9949 | 11913 | 13901 | 15909 | 17937 | 19980 | 22040 | 24113 | 26200 | 700 | 11452 | 8528 |
| iV60x160 | Normal | 500 | 4753 | 5907 | 7077 | 8263 | 9462 | 10673 | 11894 | 13125 | 14365 | 15613 | 800 | 5604 | 4175 |
| | Medium | 500 | 6532 | 8118 | 9729 | 11360 | 13009 | 14674 | 16355 | 18048 | 19754 | 21471 | 800 | 8684 | 6392 |
| | Boost | 500 | 9726 | 12082 | 14473 | 16895 | 19343 | 21815 | 24308 | 26820 | 29350 | 31897 | 800 | 13442 | 10009 |

Pressure Drop

| Flow (l/h) | Pressure Drop (ins wg) | | | | |
|---|------------------------|----------|----------|----------|----------|
| | iV60x080 | iV60x100 | iV60x120 | iV60x140 | iV60x160 |
| 2 Pipe Heating/Cooling & 4 Pipe Cooling | | | | | |
| 100 | 12 | 18 | 23 | 26 | 30 |
| 150 | 26 | 36 | 47 | 52 | 60 |
| 220 | 44 | 60 | 78 | 85 | 98 |
| 330 | 66 | 89 | 115 | 124 | 143 |
| 500 | 92 | 124 | 157 | 170 | 194 |
| 750 | 123 | 163 | 205 | 221 | 253 |
| 4 Pipe Heating | | | | | |
| 100 | 24 | 36 | 46 | 52 | 60 |
| 150 | 52 | 72 | 94 | 104 | 120 |
| 220 | 88 | 120 | 156 | 170 | 196 |
| 330 | 132 | 178 | 230 | 248 | 286 |
| 500 | 184 | 248 | 314 | 340 | 388 |

Weight, Water Content and Motor Power

| Model | Motor Power (w) | 2 Pipe Water Content (gal) | 4 Pipe Water Content (gal) | 2 Pipe Unpacked Weight (lbs) | 4 Pipe Unpacked Weight (lbs) |
|----------|-----------------|----------------------------|----------------------------|------------------------------|------------------------------|
| iV60x080 | 32 | 0.174 | 0.087 | 50 | 115 |
| iV60x100 | 35 | 0.243 | 0.1215 | 61 | 140 |
| iV60x120 | 44 | 0.314 | 0.6 | 72 | 164 |
| iV60x140 | 53 | 0.383 | 0.73 | 83 | 189 |
| iV60x160 | 65 | 0.454 | 0.227 | 94 | 215 |

Note:
2 pipe water content = 2 pipe heating/cooling or 4 pipe cooling and 4 pipe water content = 4 pipe heating.

Sound Levels

| Model | Sound Pressure (dBA) (at 2.5m) | | |
|----------|--------------------------------|--------|-------|
| | Normal | Medium | Boost |
| iV60x080 | 24.8 | 37.7 | 47.9 |
| iV60x100 | 27 | 35.8 | 47.9 |
| iV60x120 | 24 | 40.5 | 51.7 |
| iV60x140 | 24.9 | 35.5 | 54.8 |
| iV60x160 | 27 | 35 | 56.3 |

Sound levels tested in accordance with ISO 3741.

Air Flow Rates

| Condition | Fan Speed | Air Flow (cfm) | | | | |
|-----------|-----------|----------------|----------|----------|----------|----------|
| | | iV60x080 | iV60x100 | iV60x120 | iV60x140 | iV60x160 |
| Heating | Normal | 53 | 80 | 106 | 132 | 159 |
| | Medium | 87 | 130 | 174 | 217 | 261 |
| | Boost | 145 | 218 | 290 | 363 | 436 |
| Cooling | Normal | 38 | 58 | 77 | 96 | 115 |
| | Medium | 65 | 97 | 129 | 162 | 194 |
| | Boost | 119 | 178 | 237 | 297 | 356 |