



iVECTOR MKII



iVECTOR TYPE BC

New and improved, the latest generation of iVECTOR is even more quiet, even more efficient and even more intelligent than ever before. With a new extended range, there are even more options available when selecting your iVECTOR.

iVECTOR MKII maintains all the benefits of the previous model with the same great looks and high performance but now comes with an improved motor, an improved fan and improved software, making it the most intelligent fan convector we have ever made. This underlies MYSON's commitment to continuously innovate and improve our products.

The iVECTOR is a popular choice within the commercial sector, having been installed in a variety of locations, such as schools, universities, care homes and retail facilities.



High outputs

The iVECTOR has a large surface area heat exchanger. This feature, combined with forced convection from its in-built fan, produces high heat outputs.



Rapid heat

The iVECTOR has a lower water content resulting in faster heat up times.



Silent

The iVECTOR now comes with an aluminium fan which reduces sound levels making it operate virtually silently.



More efficient

The upgraded motor makes the new iVECTOR up to 89% more efficient than the previous version. This high efficiency results in lower power consumption, saving money and energy.



Cooling

When connected to a chilled water supply it can rapidly cool spaces as well.



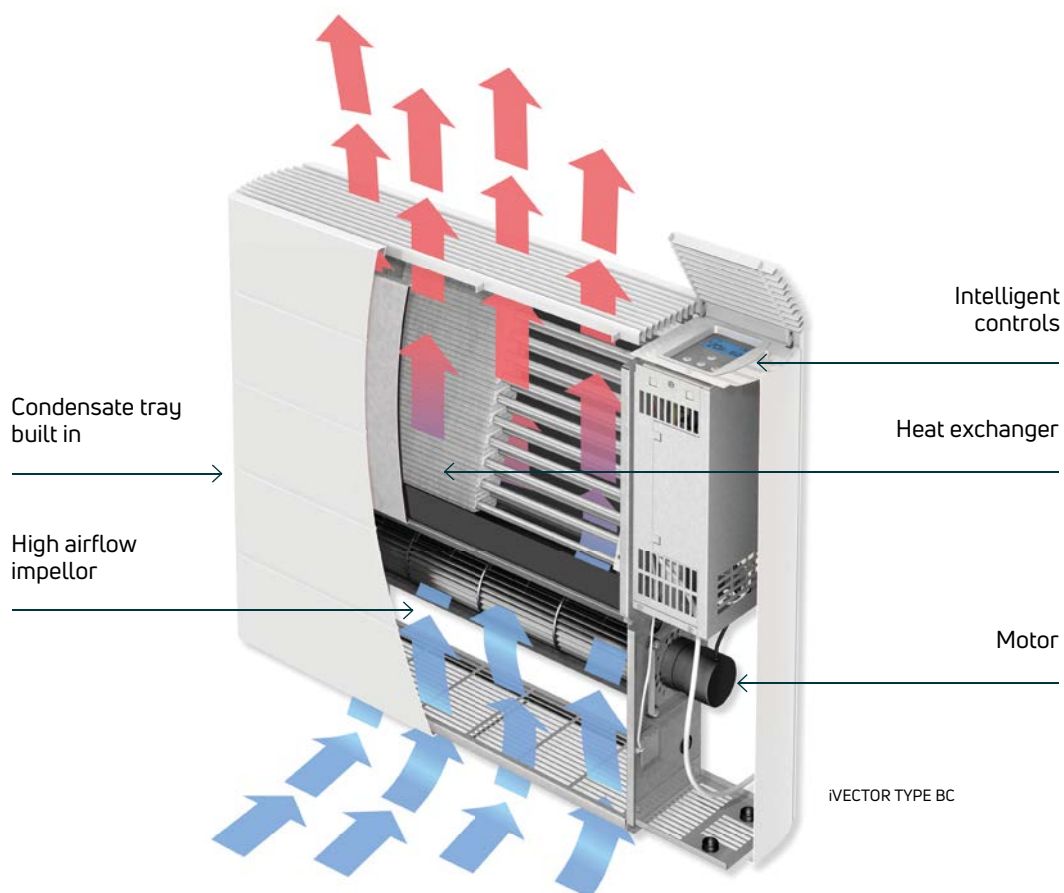
More choice

As well as the standard Type BC there are now even more models available with a no controls version (Type BN) as well as a floor version (Type FC/FN), by special order.



IVECTOR MKII

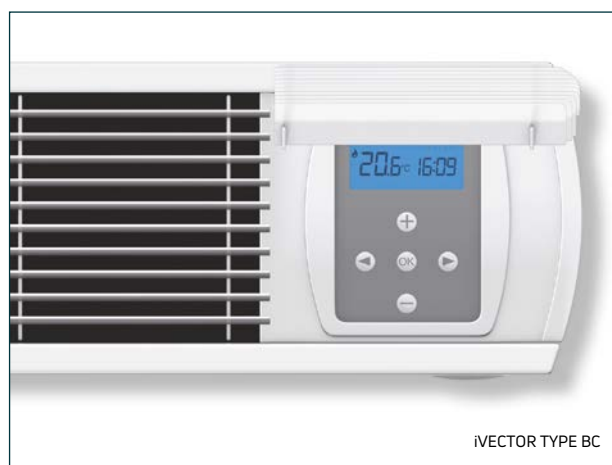
How it works



Controls

Intelligent and easy to use controls

- Intelligent, flexible controls that can be set to easy or full mode
- Easy mode allows basic function such as comfort mode and manual fan speed selection
- Full mode allows more advanced functions
- 24/7 programmer with 1 hour time intervals
- Night set-back function
- Holiday function
- Lockable LCD backlit display
- 20 fan speeds in comfort mode for seamless fan switching
- Option to adjust water set points (default, heating = 32°C, cooling = 15°C)




iVECTOR MKII

Complete range


TYPE BC

Model with standard controls.




inlet

outlet



integrated controls



stocked

TYPE BN

A "no controls" version of the BC model.



inlet

outlet




no controls



made to order


TYPE FC

A front grille model that comes with controls.




inlet


outlet




integrated controls



made to order




integrated controls



reduced floor clearance


TYPE FN

A "no controls" version of the FC model.




inlet


outlet




no controls



made to order



integrated controls



reduced floor clearance

FAN CONNECTORS

iVECTOR MKII

General specification & technical information



CERTIFICATION

Produced under a quality management system - ISO 9001:2015, environmental management system - ISO 14001:2015 and Occupational health and safety management system - ISO 45001:2018. Carries the CE mark and conforms to the Low Voltage Directive 2014/35/EU and the EMC Directive 2014/30/EU. Outputs are tested to BS 4856 Part 1. Sound levels are tested to EN 23741.



GUARANTEE

2 year guarantee from date of purchase against manufacturing defects.



COLOUR

Finished in white (RAL 9016) powder coating.



ANTI-BACTERIAL PAINT

Coating to suppress bacterial growth.



SYSTEM

Closed circulation, 2 pipe pump assisted central heating systems.



CONNECTIONS

2 x 3/4" internal thread connections on 2 pipe versions.
4 x 3/4" internal thread connections on special 4 pipe versions.



AIR VENTS

Integrated.



OPERATING PRESSURES

Tested to a pressure of 20 bar.
Working pressure of up to 10 bar.



OPERATING TEMPERATURE

Maximum 85°C.



ELECTRICAL SUPPLY

220-240V - 50Hz fused at 3A.



DELIVERY

Stocked items (Type BC - 2 pipe): 2 - 5 working days.
Non-stocked items (Type BC - 4 pipe and Types BN, FC, FN - 2 & 4 pipe): 2 - 4 weeks.

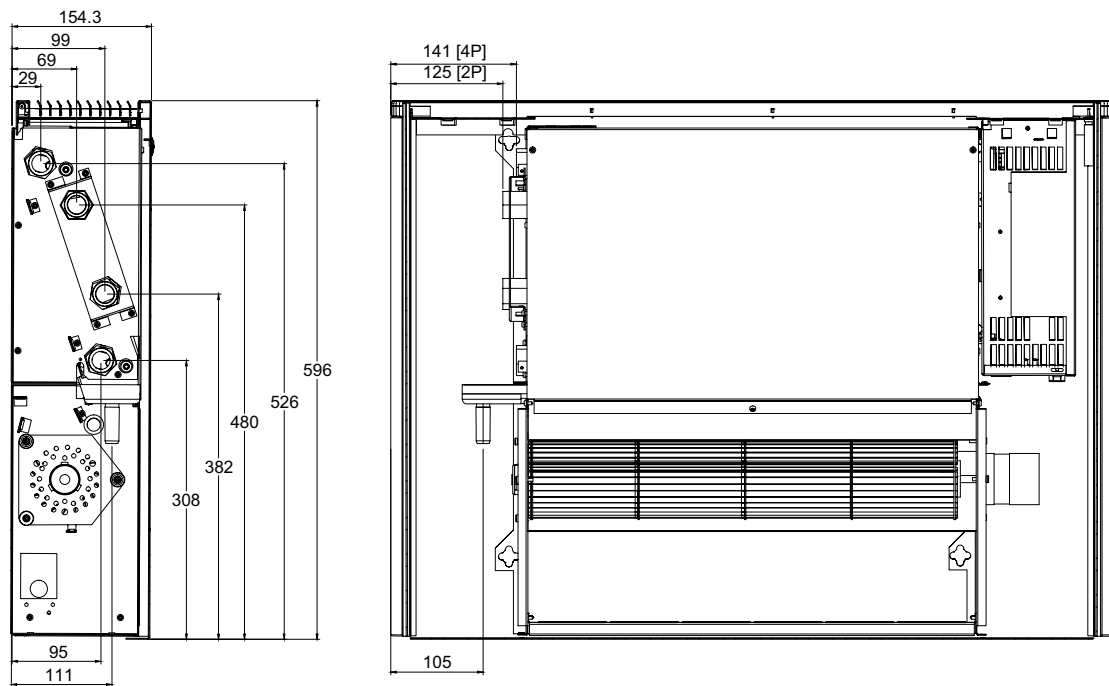
For more general information, please see page 260.

		Fan Speed	Model					
			iV60v080	iV60v100	iV60v120	iV60v140	iV60v160	
Dimensions	Nominal Height (mm)	-	600	600	600	600	600	
	Nominal Depth (mm)	-	153	153	153	153	153	
	Nominal Length (mm)	-	800	1000	1200	1400	1600	
Sound Levels*	Sound Pressure (dBA) (at 2.5m)	Min	20.9	22.5	20.9	21.1	21.9	
		Max	39.9	42.0	41.2	44.9	43.3	
Motor Power (W)		Min	3.5	3.6	3.8	4.5	4.6	
		Max	13	18.5	23	30	35	
Weight & Water Content†	2 Pipe Water Content (l)	-	0.66	0.92	1.19	1.45	1.72	
	4 Pipe Water Content (l)	-	0.33	0.46	0.6	0.73	0.86	
	2 Pipe Unpacked Weight (kg)	-	22.8	27.7	32.5	37.5	42.6	
	4 Pipe Unpacked Weight (kg)	-	24.8	30.1	35.3	40.7	46.2	
Air Flow Rates	Heating Air Flow (m³/h)	Min	90	135	180	225	270	
		Max	247	370	493	616	740	
	Cooling Air Flow (m³/h)	Min	65	98	130	163	195	
		Max	202	302	403	504	605	
Flow Rates/ Pressure Losses	Pressure Drop (kPa) (2 Pipe Heating/Cooling & 4 Pipe Cooling)	Flow (l/h)						
			330	6.1	8.5	11.1	12.2	14.2
			500	13	17.8	22.9	24.9	28.7
	Pressure Drop (kPa) (4 Pipe Heating)	Flow (l/h)						
			750	27.5	36.5	46.2	49.8	57.1
			330	12.2	17	22.2	24.4	28.4
	500	26	35.6	45.8	49.8	57.4		

* Sound levels tested in accordance with ISO 3741. Sound performance figures shown are at fan speeds via controls unit and may differ with external controller.

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

Mounting positions & dimensions

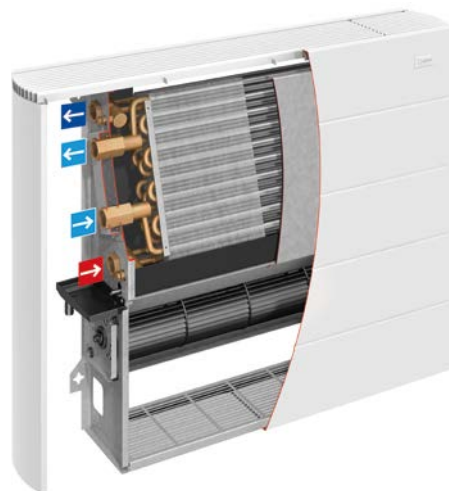


Connections

2 Pipe



4 Pipe



iVECTOR MKII - TYPE BC/BN

Heat outputs

iVECTOR MKII type BC - 2 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code
							Condition 7-12-27				
			Total		Sensible						
Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h		
iV60x080	Min	341	1997	6814	1146	3910	707	2412	527	1798	iV80 2P BC
	Max		3682	12563	2113	7210	1648	5623	1227	4187	
iV60x100	Min	450	2739	9345	1572	5364	1011	3450	753	2569	iV100 2P BC
	Max		5124	17483	2941	10035	2304	7861	1716	5855	
iV60x120	Min	600	3288	11219	1887	6438	1250	5186	931	3177	iV120 2P BC
	Max		6521	22250	3743	12771	2918	9956	2173	7414	
iV60x140	Min	700	3867	13194	2219	7571	1490	5084	1110	3787	iV140 2P BC
	Max		7894	26934	4531	15460	3533	12055	2631	8977	
iV60x160	Min	800	4460	15218	2560	8735	1729	5899	1288	4395	iV160 2P BC
	Max		9266	31616	5318	18145	4147	14150	3088	10536	

iVECTOR MKII type BC - 4 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code	
							Condition 7-12-27					
			Flow (l/h)	Total		Sensible						
Watts	Btu/h	Watts		Btu/h	Watts	Btu/h	Watts	Btu/h				
iV60x080 4 Pipe	Min	300	1398	4770	802	2736	350	672	2292	501	1708	iV80 4P BC*
	Max		2577	8793	1479	5046		1566	5342	1166	3977	
iV60x100 4 Pipe	Min	350	1917	6541	1100	3753	450	960	3277	715	2441	iV100 4P BC*
	Max		3587	12239	2059	7025		2189	7468	1630	5562	
iV60x120 4 Pipe	Min	400	2302	7854	1321	4507	600	1444	4927	884	3018	iV120 4P BC*
	Max		4565	15576	2620	8939		2772	9458	2064	7044	
iV60x140 4 Pipe	Min	450	2707	9236	1553	5299	700	1416	4830	1055	3598	iV140 4P BC*
	Max		5526	18855	3172	10823		3356	11452	2499	8528	
iV60x160 4 Pipe	Min	500	3122	10652	1792	6114	800	1643	5604	1224	4175	iV160 4P BC*
	Max		6486	22130	3723	12703		3940	13442	2934	10009	

iVECTOR MKII type BN - 2 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code
							Condition 7-12-27				
			Total		Sensible						
Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h		
iV60x080	Min	341	1997	6814	1146	3910	707	2412	527	1798	iV80 2P BN*
	Max		3682	12563	2113	7210	1648	5623	1227	4187	
iV60x100	Min	450	2739	9345	1572	5364	1011	3450	753	2569	iV100 2P BN*
	Max		5124	17483	2941	10035	2304	7861	1716	5855	
iV60x120	Min	600	3288	11219	1887	6438	1250	5186	931	3177	iV120 2P BN*
	Max		6521	22250	3743	12771	2918	9956	2173	7414	
iV60x140	Min	700	3867	13194	2219	7571	1490	5084	1110	3787	iV140 2P BN*
	Max		7894	26934	4531	15460	3533	12055	2631	8977	
iV60x160	Min	800	4460	15218	2560	8735	1729	5899	1288	4395	iV160 2P BN*
	Max		9266	31616	5318	18145	4147	14150	3088	10536	

iVECTOR MKII type BN - 4 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code	
							Condition 7-12-27					
			Flow (l/h)	Total		Sensible						
Watts	Btu/h	Watts		Btu/h	Watts	Btu/h	Watts	Btu/h				
iV60x080 4 Pipe	Min	300	1398	4770	802	2736	350	672	2292	501	1708	iV80 4P BN*
	Max		2577	8793	1479	5046		1566	5342	1166	3977	
iV60x100 4 Pipe	Min	350	1917	6541	1100	3753	450	960	3277	715	2441	iV100 4P BN*
	Max		3587	12239	2059	7025		2189	7468	1630	5562	
iV60x120 4 Pipe	Min	400	2302	7854	1321	4507	600	1444	4927	884	3018	iV120 4P BN*
	Max		4565	15576	2620	8939		2772	9458	2064	7044	
iV60x140 4 Pipe	Min	450	2707	9236	1553	5299	700	1416	4830	1055	3598	iV140 4P BN*
	Max		5526	18855	3172	10823		3356	11452	2499	8528	
iV60x160 4 Pipe	Min	500	3122	10652	1792	6114	800	1643	5604	1224	4175	iV160 4P BN*
	Max		6486	22130	3723	12703		3940	13442	2934	10009	

Relative Humidity: Sensible cooling at 50%.
 Outputs tested in accordance with BS 4856 Part 1 for heating and Part 2 for cooling.
 *iVECTOR Type BC 4 pipe and Type BN 2 & 4 pipe are available as a special order.

iVECTOR MKII - TYPE FC/FN

Heat outputs

iVECTOR MKII type FC - 2 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code
							Condition 7-12-27				
							Total		Sensible		
		Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h		
iV60x080	Min	341	1997	6814	1146	3910	707	2412	527	1798	iV80 2P FC*
	Max		3682	12563	2113	7210	1648	5623	1227	4187	
iV60x100	Min	450	2739	9345	1572	5364	1011	3450	753	2569	iV100 2P FC*
	Max		5124	17483	2941	10035	2304	7861	1716	5855	
iV60x120	Min	600	3288	11219	1887	6438	1250	5186	931	3177	iV120 2P FC*
	Max		6521	22250	3743	12771	2918	9956	2173	7414	
iV60x140	Min	700	3867	13194	2219	7571	1490	5084	1110	3787	iV140 2P FC*
	Max		7894	26934	4531	15460	3533	12055	2631	8977	
iV60x160	Min	800	4460	15218	2560	8735	1729	5899	1288	4395	iV160 2P FC*
	Max		9266	31616	5318	18145	4147	14150	3088	10536	

iVECTOR MKII type FC - 4 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code	
							Condition 7-12-27					
							Flow (l/h)	Total		Sensible		
		Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h			
iV60x080 4 Pipe	Min	300	1398	4770	802	2736	350	672	2292	501	1708	iV80 4P FC*
	Max		2577	8793	1479	5046		1566	5342	1166	3977	
iV60x100 4 Pipe	Min	350	1917	6541	1100	3753	450	960	3277	715	2441	iV100 4P FC*
	Max		3587	12239	2059	7025		2189	7468	1630	5562	
iV60x120 4 Pipe	Min	400	2302	7854	1321	4507	600	1444	4927	884	3018	iV120 4P FC*
	Max		4565	15576	2620	8939		2772	9458	2064	7044	
iV60x140 4 Pipe	Min	450	2707	9236	1553	5299	700	1416	4830	1055	3598	iV140 4P FC*
	Max		5526	18855	3172	10823		3356	11452	2499	8528	
iV60x160 4 Pipe	Min	500	3122	10652	1792	6114	800	1643	5604	1224	4175	iV160 4P FC*
	Max		6486	22130	3723	12703		3940	13442	2934	10009	

iVECTOR MKII type FN - 2 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code
							Condition 7-12-27				
							Total		Sensible		
		Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h		
iV60x080	Min	341	1997	6814	1146	3910	707	2412	527	1798	iV80 2P FN*
	Max		3682	12563	2113	7210	1648	5623	1227	4187	
iV60x100	Min	450	2739	9345	1572	5364	1011	3450	753	2569	iV100 2P FN*
	Max		5124	17483	2941	10035	2304	7861	1716	5855	
iV60x120	Min	600	3288	11219	1887	6438	1250	5186	931	3177	iV120 2P FN*
	Max		6521	22250	3743	12771	2918	9956	2173	7414	
iV60x140	Min	700	3867	13194	2219	7571	1490	5084	1110	3787	iV140 2P FN*
	Max		7894	26934	4531	15460	3533	12055	2631	8977	
iV60x160	Min	800	4460	15218	2560	8735	1729	5899	1288	4395	iV160 2P FN*
	Max		9266	31616	5318	18145	4147	14150	3088	10536	

iVECTOR MKII type FN - 4 pipe*

Model	Fan Speed	Flow (l/h)	Heat Outputs @ ΔT 50°C		Heat Outputs @ ΔT 30°C		Cooling Outputs				Order Code	
							Condition 7-12-27					
							Flow (l/h)	Total		Sensible		
		Watts	Btu/h	Watts	Btu/h	Watts	Btu/h	Watts	Btu/h			
iV60x080 4 Pipe	Min	300	1398	4770	802	2736	350	672	2292	501	1708	iV80 4P FN*
	Max		2577	8793	1479	5046		1566	5342	1166	3977	
iV60x100 4 Pipe	Min	350	1917	6541	1100	3753	450	960	3277	715	2441	iV100 4P FN*
	Max		3587	12239	2059	7025		2189	7468	1630	5562	
iV60x120 4 Pipe	Min	400	2302	7854	1321	4507	600	1444	4927	884	3018	iV120 4P FN*
	Max		4565	15576	2620	8939		2772	9458	2064	7044	
iV60x140 4 Pipe	Min	450	2707	9236	1553	5299	700	1416	4830	1055	3598	iV140 4P FN*
	Max		5526	18855	3172	10823		3356	11452	2499	8528	
iV60x160 4 Pipe	Min	500	3122	10652	1792	6114	800	1643	5604	1224	4175	iV160 4P FN*
	Max		6486	22130	3723	12703		3940	13442	2934	10009	

Relative Humidity: Sensible cooling at 50%.

Outputs tested in accordance with BS 4856 Part 1 for heating and Part 2 for cooling.

*iVECTOR Type FC 2 & 4 pipe and Type FN 2 & 4 pipe are available as a special order.