

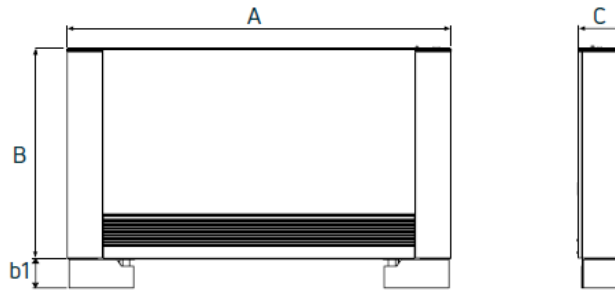
General Information

Provide MYSON iVector S2 VS or VS*i* series fan convectors in models and sizes as scheduled. All units must conform to standards UL 1995 and CSA C22.2 No. 236-15. All exposed casings shall be finished in RAL 9003 electrostatically applied powder coated finish. Other RAL colors may be specified at additional cost.

Each iVector S2 series is equipped with a DC motor with on board proportional integral derivative controller. The associated user-interface is a fully automatic/programmable *Smart Touch* control that is mounted to the unit (VS models) or wall mounted (VS*i* models). VS on board control (PCB) is capable of controlling a single VS unit, where the wall mounted control is cable of controlling up to 30 units. Connection between wall mounted control and iVector S2 units shall be RS485 data cable (by others).

Dimensional Details

iVector S2 VS models

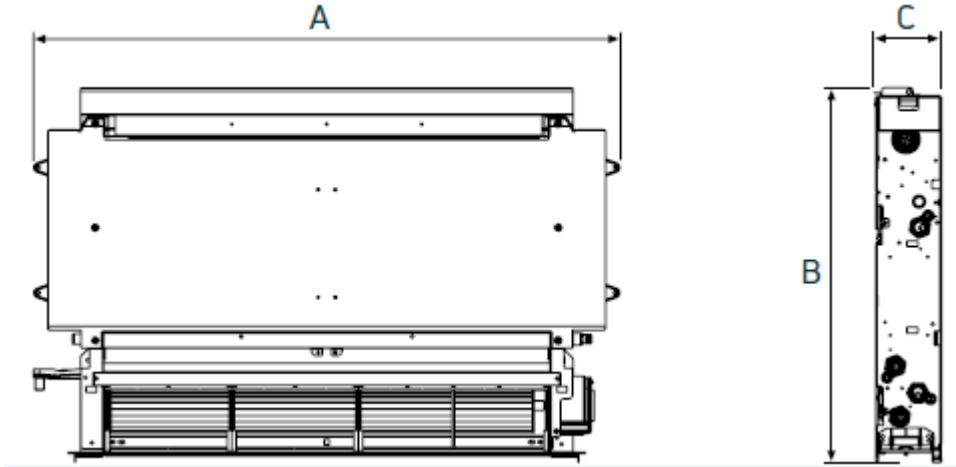


2-PIPE VERSIONS						
		Model				
		VS 7-2P	VS 9-2P	VS 11-2P	VS 13-2P	VS 15-2P
Dimensions		(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)
A	mm	735 (29)	935 (37)	1135 (45)	1335 (53)	1535 (61)
B	mm	579 (23)	579 (23)	579 (23)	579 (23)	579 (23)
b1	mm	82 (3)	82 (3)	82 (3)	82 (3)	82 (3)
C	mm	131 (5)	131 (5)	131 (5)	131 (5)	131 (5)
Weight						
Net	kg (lbs)	17 (34.4)	20 (44.0)	23 (50.6)	26 (57.2)	29 (63.8)

4-PIPE VERSIONS						
		Model				
		VS 7-4P	VS 9-4P	VS 11-4P	VS 13-4P	VS 15-4P
Dimensions		(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)
A	mm	735 (29)	935 (37)	1135 (45)	1335 (53)	1535 (61)
B	mm	639 (25)	639 (25)	639 (25)	639 (25)	639 (25)
b1	mm	82 (3)	82 (3)	82 (3)	82 (3)	82 (3)
C	mm	131 (5)	131 (5)	131 (5)	131 (5)	131 (5)
Weight						
Net	kg (lbs)	18 (39.6)	21 (46.2)	25 (55.0)	28 (61.6)	32 (70.4)

Dimensional Details

iVector VSi models



2-PIPE VERSIONS

		Model				
		VS 7-2P	VS 9-2P	VS 11-2P	VS 13-2P	VS 15-2P
Dimensions		(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)
A	mm	525 (21)	725 (29)	925 (37)	1125 (45)	1335 (53)
B	mm	576 (23)	576 (23)	576 (23)	576 (23)	576 (23)
C	mm	126 (5)	126 (5)	126 (5)	126 (5)	126 (5)
Weight						
Net	kg (lbs)	9 (19.8)	12 (26.4)	15 (33)	18 (39.6)	21 (46.2)

4-PIPE VERSIONS

		Model				
		VS 7-4P	VS 9-4P	VS 11-4P	VS 13-4P	VS 15-4P
Dimensions		(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)	(nominal inches)
A	mm	525 (21)	725 (29)	925 (37)	1125 (45)	1335 (53)
B	mm	579 (23)	579 (23)	579 (23)	579 (23)	579 (23)
C	mm	126 (5)	126 (5)	126 (5)	126 (5)	126 (5)
Weight						
Net	kg (lbs)	10 (22.0)	13 (28.6)	17 (37.4)	20 (44)	24 (52.8)

Performance Details

iVector S2 Models (Metric Units – IP)

2-PIPE MODELS			Model				
Parameter	Metric	Units (IP)	VS 7 VSI 7	VS 9 VSI 9	VS 11 VSI 11	VS 13 VSI 13	VS 15 VSI 15
Cooling/heating	Total cooling (45/54/81°F)	btuh med (min - max)**	2,491 (na - 3,106)	4,641 (2,560 - 7,234)	7,098 (3,924 - 9,589)	8,156 (4,505 - 11,261)	8,770 (4,812 - 12,660)
	Sensible cooling	btuh med (min - max)**	1,877 (na - 2,491)	3,651 (2,014 - 5,869)	5,153 (2,833 - 7,200)	6,279 (3,481 - 9,247)	6,757 (3,651 - 9,896)
		Flow rate	gpm med (min - max)**	0.6 (na - 0.7)	1.0 (0.6 - 1.6)	1.6 (0.9 - 2.1)	1.8 (1.0 - 2.4)
	Pressure drop	ft of hd med (min - max)**	3.4 (na - 4.0)	1.4 (0.6 - 2.7)	3.3 (0.9 - 5.7)	2.9 (0.8 - 6.0)	3.7 (1.6 - 7.1)
		Heating (17/5/16/58°F)	btuh med (min - max)**	6,859 (4,607 - 8,326)	12,952 (6,927 - 17,710)	17,982 (10,066 - 24,841)	21,804 (12,352 - 31,653)
	Flow rate	gpm med (min - max)**	0.8 (0.5 - 0.9)	1.4 (0.8 - 2.0)	2.0 (1.1 - 2.8)	2.5 (1.4 - 3.6)	2.7 (1.4 - 4.2)
Pressure drop		ft of hd med (min - max)**	11 (0.4 - 2.6)	1.4 (0.7 - 2.0)	3.6 (1.2 - 6.4)	4.0 (1.3 - 7.2)	5.6 (1.8 - 12.2)
Hydraulic	Heat exchanger water volume	US gal	0.12	0.21	0.30	0.39	0.48
	Max. operating pressure	psi	145	145	145	145	145
	Operating temperatures	°F	39 - 185	39 - 185	39 - 185	39 - 185	39 - 185
	Pipe S/R connections**	inch	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"
	Condensate drain size	mm	14	14	14	14	14
Airflow	Airflow**	cfm med (min - max)	53.6 (28.8 - 85.0)	123.6 (73.0 - 173.0)	187.2 (114.2 - 257.8)	241.3 (177.8 - 333.7)	281.9 (214.2 - 390.2)
Electrical	Power supply	V/ph/Hz	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
	Max. power	W	11	19	20	29	33
	Max. current	A	0.22	0.32	0.36	0.52	0.56
	Max. power @ min. speed	W	4	4	5	5	5
Acoustics	Sound power	dB(A) med (min - max)**	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure**	dB(A) med (min - max)**	33 (24 - 41)	34 (25 - 42)	34 (25 - 44)	35 (26 - 46)	37 (27 - 47)

4-PIPE MODELS			Model				
Parameter	Metric	Units (IP)	VS 7 VSI 7	VS 9 VSI 9	VS 11 VSI 11	VS 13 VSI 13	VS 15 VSI 15
Cooling/heating	Total cooling (45/54/81°F)	btuh med (min - max)**	2,082 (1,058 - 2,457)	3,856 (2,150 - 5,050)	5,187 (2,696 - 7,030)	6,108 (3,344 - 8,531)	7,439 (4,129 - 10,237)
	Sensible cooling	btuh med (min - max)**	1,536 (819 - 1,911)	2,867 (1,570 - 3,924)	3,788 (2,082 - 5,255)	4,812 (2,764 - 6,722)	5,733 (3,174 - 7,883)
		Flow rate	gpm med (min - max)**	0.5 (0.2 - 0.5)	0.8 (0.5 - 1.1)	1.1 (0.6 - 1.6)	1.3 (0.7 - 1.9)
	Pressure drop	ft of hd med (min - max)**	2.5 (1.3 - 2.8)	1.8 (1.1 - 2.2)	3.2 (1.6 - 4.6)	2.4 (1.3 - 3.6)	4.9 (1.7 - 5.3)
		Heating (17/5/16/58°F)	btuh med (min - max)**	2,457 (1,434 - 2,798)	4,709 (3,174 - 5,494)	6,688 (5,187 - 7,814)	9,657 (6,688 - 11,056)
	Flow rate	gpm med (min - max)**	0.3 (0.2 - 0.3)	0.5 (0.4 - 0.6)	0.8 (0.6 - 0.9)	1.1 (0.8 - 1.3)	1.2 (0.8 - 1.4)
Pressure drop		ft of hd med (min - max)**	1.4 (1.1 - 1.4)	1.2 (1.2 - 2.3)	2.7 (2.7 - 3.6)	2.0 (1.5 - 2.4)	1.7 (1.8 - 1.3)
Hydraulic	Heat exchanger water volume	US gal	0.12	0.21	0.30	0.39	0.48
	Max. operating pressure	psi	145	145	145	145	145
	Operating temperatures	°F	39 - 185	39 - 185	39 - 185	39 - 185	39 - 185
	Pipe S/R connections**	inch	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"
	Condensate drain size	mm	14	14	14	14	14
Airflow	Airflow**	cfm med (min - max)	53.6 (27.1-77.7)	121.8 (73.0-153.0)	171.3 (114.2-217.8)	157.2 (145.4-280.2)	244.8 (154.2-319.0)
Electrical	Power supply	V/ph/Hz	120/1/60	120/1/60	120/1/60	120/1/60	120/1/60
	Max. power	W	11	19	20	29	33
	Max. current	A	0.22	0.32	0.36	0.52	0.56
	Max. power @ min. speed	W	4	4	4	4	5
Acoustics	Sound power	dB(A) med (min - max)**	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure**	dB(A) med (min - max)**	33 (24 - 41)	34 (25 - 42)	34 (25 - 44)	35 (26 - 46)	37 (27 - 47)

*1: In Auto mode, values will vary between min-max.
 *2: Supply/return piping is on the left side of the unit. Right side connections available as special order
 *3: Airflow measured with clean filters
 *4: Sound pressure measured in semi-anechoic chamber in compliance with ISO 7779 (distance 3 m) - on-site conditions will result in different values

Performance Details

iVector S2 Models (Metric Units – SI)

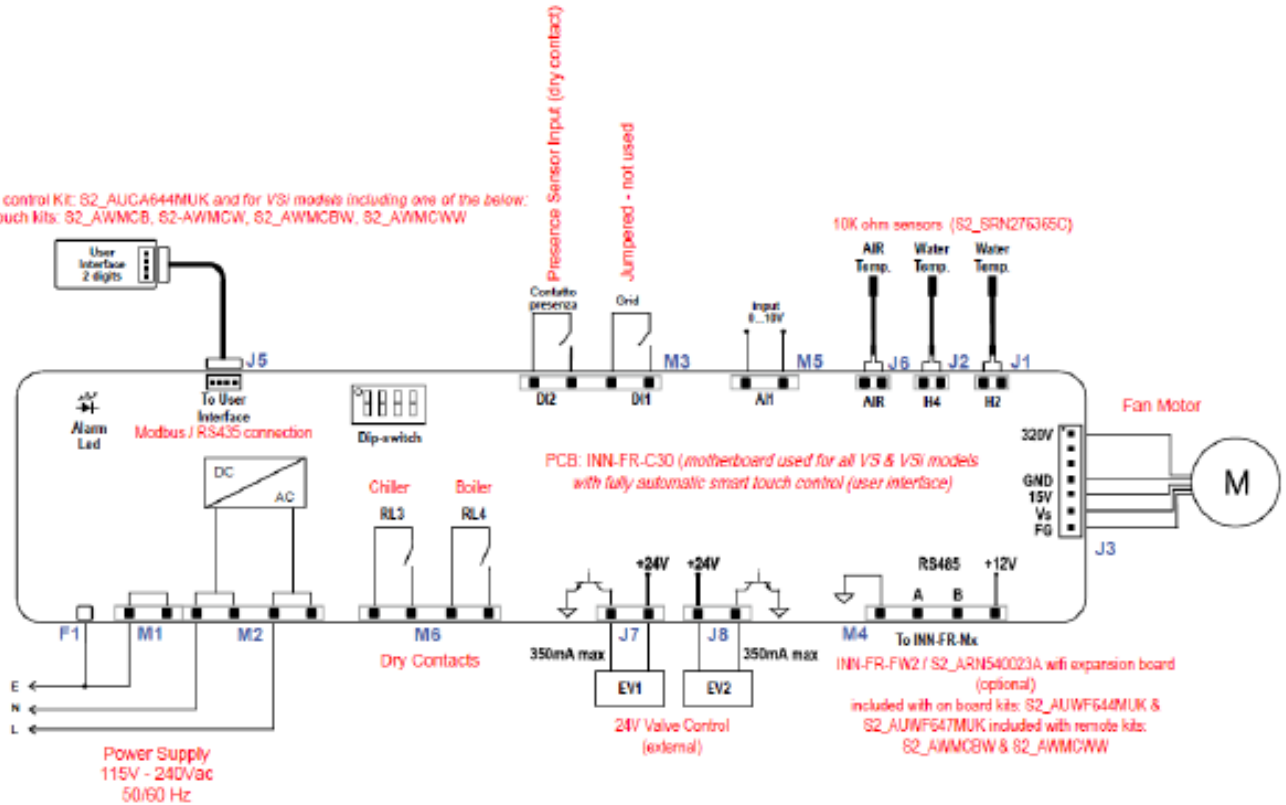
2-PIPE MODELS			Model				
Parameter	Metric	Units (SI)	VS7 VSI7	VS 9 VSI 9	VS 11 VSI 11	VS 13 VSI 13	VS 15 VSI 15
Cooling/heating	Total cooling (7/12/27°C)	kW med (min - max)**	0.73 (na - 0.91)	1.36 (0.75 - 2.12)	2.08 (1.15 - 2.81)	2.39 (1.32 - 3.30)	2.57 (1.41 - 3.71)
	Sensible cooling	kW med (min - max)**	0.55 (na - 0.73)	1.07 (0.59 - 1.72)	1.51 (0.83 - 2.11)	1.84 (1.02 - 2.71)	1.98 (1.07 - 2.09)
		Flow rate V/h med (min - max)**	125.3 (na - 156.1)	233.3 (128.7 - 363.8)	356.9 (197.3 - 482.1)	410.1 (226.5 - 556.2)	441.0 (241.5 - 636.6)
	Pressure drop	kPa med (min - max)**	10.2 (na - 12.1)	4.3 (1.9 - 8.2)	9.9 (2.7 - 17.1)	8.8 (2.5 - 18.0)	11.1 (13.8 - 21.2)
		Heating (80/75/20°C)	kW med (min - max)**	2.01 (1.35 - 2.44)	3.62 (2.03 - 5.19)	5.27 (2.95 - 7.28)	6.39 (3.62 - 9.27)
	Flow rate	V/h med (min - max)**	176.9 (118.7 - 215.1)	318.9 (179.2 - 457.6)	464.5 (259.8 - 642.3)	563.1 (319.2 - 817.3)	605.9 (322.1 - 947.1)
Pressure drop		kPa med (min - max)**	3.3 (1.1 - 7.7)	4.1 (2.0 - 5.9)	10.9 (3.6 - 19.1)	12.0 (4.0 - 21.6)	16.7 (5.5 - 36.6)
Hydraulic	Heat exchanger water volume	l	0.47	0.80	1.13	1.46	1.80
	Max. operating pressure	bar	10	10	10	10	10
	Operating temperatures	°C min - max	4 - 85	4 - 85	4 - 85	4 - 85	4 - 85
	Pipe S/R connectors**	Inch	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"
	Condensate drain size	mm	14	14	14	14	14
Airflow	Airflow**	m ³ /h med (min - max)	91 (49 - 146)	210 (124 - 294)	318 (194 - 438)	410 (302 - 567)	479 (364 - 663)
Electrical	Power supply	V/ph/Hz	120/V/60	120/V/60	120/V/60	120/V/60	120/V/60
	Max. power	W	11	19	20	29	33
	Max. current	A	0.22	0.32	0.36	0.52	0.56
	Max. power @ min. speed	W	4	4	5	5	5
Acoustics	Sound power	dB(A) med (min - max)**	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure**	dB(A) med (min - max)**	33 (24 - 41)	34 (25 - 42)	34 (26 - 44)	35 (26 - 46)	38 (28 - 47)
4-PIPE MODELS			Model				
Parameter	Metric	Units (SI)	VS7 VSI7	VS 9 VSI 9	VS 11 VSI 11	VS 13 VSI 13	VS 15 VSI 15
Cooling/heating	Total cooling (7/12/27°C)	kW med (min - max)**	0.61 (0.31 - 0.72)	1.13 (0.63 - 1.48)	1.52 (0.79 - 2.06)	1.79 (0.98 - 2.50)	2.18 (1.21 - 3.00)
	Sensible cooling	kW med (min - max)**	0.45 (0.24 - 0.56)	0.84 (0.46 - 1.15)	1.11 (0.61 - 1.54)	1.41 (0.81 - 1.97)	1.68 (1.03 - 2.31)
		Flow rate V/h med (min - max)**	105.4 (52.5 - 124.2)	193.0 (107.3 - 253.5)	260.2 (135.2 - 353.6)	306.4 (168.9 - 428.5)	374.3 (207.8 - 514.2)
	Pressure drop	kPa med (min - max)**	7.4 (3.9 - 8.4)	5.3 (3.4 - 6.6)	9.7 (4.9 - 13.7)	7.3 (4.0 - 10.8)	14.7 (14.0 - 15.7)
		Heating (80/75/20°C)	kW med (min - max)**	0.72 (0.42 - 0.82)	1.38 (0.93 - 1.61)	1.96 (1.52 - 2.29)	2.83 (1.96 - 3.24)
	Flow rate	V/h med (min - max)**	63.2 (37.3 - 72.3)	121.7 (82.2 - 141.8)	173.0 (134.4 - 202.2)	249.9 (173.1 - 285.5)	267.4 (184.5 - 320.1)
Pressure drop		kPa med (min - max)**	4.1 (3.2 - 4.3)	3.7 (3.6 - 6.8)	8.2 (8.2 - 10.9)	5.9 (4.6 - 7.3)	5.0 (11.4 - 3.8)
Hydraulic	Heat exchanger water volume	l	0.47	0.80	1.13	1.46	1.80
	Max. operating pressure	bar	10	10	10	10	10
	Operating temperatures	°C min - max	4 - 82	4 - 82	4 - 82	4 - 82	4 - 82
	Pipe S/R connectors**	Inch	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"	Euroconus 3/4"
	Condensate drain size	mm	14	14	14	14	14
Airflow	Airflow**	m ³ /h med (min - max)	91 (46 - 132)	207 (124 - 260)	291 (194 - 370)	267 (247 - 476)	416 (262 - 542)
Electrical	Power supply	V/ph/Hz	120/V/60	120/V/60	120/V/60	120/V/60	120/V/60
	Max. power	W	11	19	20	29	33
	Max. current	A	0.22	0.32	0.36	0.52	0.56
	Max. power @ min. speed	W	4	4	4	4	5
Acoustics	Sound power	dB(A) med (min - max)**	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure**	dB(A) med (min - max)**	33 (24 - 41)	34 (25 - 42)	34 (25 - 44)	35 (26 - 46)	37 (27 - 47)

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 *3: Airflow measured with clean filters
 *4: Sound pressure measured in semi-anechoic chamber in compliance with ISO 7779 (distance 3 m) - on-site conditions will result in different values

Control Functionality

Interface will be:

On board smart touch control KE: S2_AJCA644MUK and for VSI models including one of the below:
 Wall mounted smart touch kits: S2_AWMCB, S2-AWMCW, S2_AWMCBW, S2_AWMCWW



MODEL C
INN-FR-C30

Project Name:
 Architect:
 Engineer:
 Submitted Date:

Approval Date:

Approval Stamp or Signature

May 2022