PURMO

Product Guide

- Purmo Bench Radiator
- Ecostyle CV, RCV, PCV Panel Radiators
- Designer Tube and Towel Bar Radiators
- Radiator Valves and Fittings
- Whispa Kick Space Heaters
- Intelligent Fan Convectors

Issued 2023

www.purmoUSA.com www.ecostyle.us
800-501-7697

PURMO

GROUP









The indoors. The place where we spend so much time – learning, sleeping, relaxing, sharing. It's where we live. That's why a healthy and comfortable indoor climate is so important. But in a world facing climate challenges, unprecedented population growth and a need to use resources better, ensuring sustainability is paramount.

Committed to innovation, we take a system and solution approach to delivering optimal heating outcomes which offers the highest levels of comfort and energy efficiency. With our complete range and expert knowledge, we can help you find exactly the right solution. So, let's work together and create innovative solutions that will meet tomorrow's indoor climate challenges today. Let's advance indoor climates as we know them.

Let's create the great indoors.

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QHT INCORPORATED

The New Style of Warmth

PURMO BENCH RADIATOR

Looking to add an individual, stylish feature to your room? The Purmo Bench Radiator has turned the humble column radiator into a focal point and created a selection of new interior design possibilities for you.
The scale and detailing of the Purmo Bench combine to give symmetry and elegance. Each unit is manufactured using the latest unique laser welding technology to create a radiator range of the highest quality, with a paint finish that is second to none. There is a color and size configuration to suit every situation whether for domestic or commercial uses.

10 YEAR QUALITY GUARANTEE

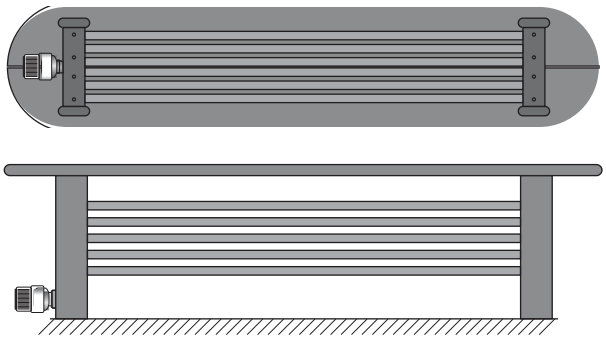
Technical Specifications

- Material : High quality, laser welded precision steel tubes.
- Connections: 2-1/2" Top connections ; 2-1/2" Bottom connections
- Working pressure: 145 psi
- Test Pressure: 217 psi
- Max Temperature: 248°F
- Color: Tube Radiator is RAL 9016 white, Legs are Grey: other colors are available upon special request
- Included: Floor mounted legs, manual air coin vent, 1 isolation valve and 1 thermostatic valve. TOP NOT INCLUDED

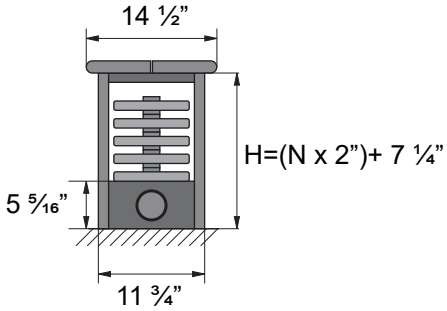
PURMO BENCH RADIATOR

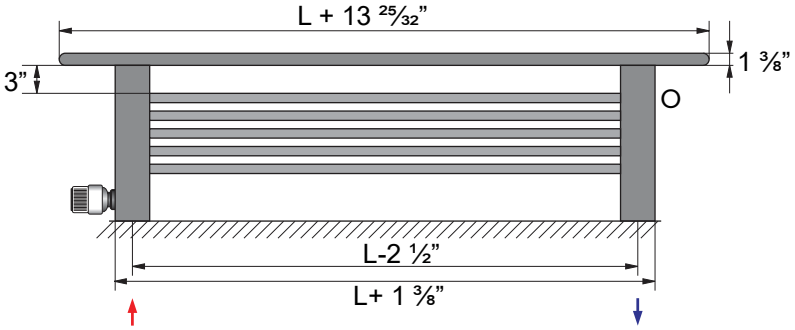
Note: Stock color is WHITE radiator with GREY stands.

Actual Dimensions



H= HEIGHT OF THE HEATER
L= LENGTH OF THE HEATER
W= WIDTH OF THE HEATER
N= NUMBER OF ELEMENTS
O= AIR VENT





Water Connections
Stock range: 2 x 1/2" BSP connections. Bench radiators include air vent, thermostatic valve, shutoff valve and non electric thermostatic head.

DELTA BENCH - Tube Radiators								
Product Code	Height (inch)	Length (inch)	Width (inch)	# Of Columns	Output (BTU/HR) @ 180°F x 68°F**	Output (BTU/HR) @ 140°F x 68°F**	Weight (lbs)	Water Content (gal)
DBH6150200	15.4"	59"	8.5"	6	6,420	3,590	83	9.9
DBH6150250	17.25"				7,856	4,472	100	11.9
*DBH6150300	19"				8,743	4,952	118	14.0
DBH6150350	21"				9,963	5,644	134	16.0
DBH6180200	15.4"	71"			7,707	4,320	95	11.3
DBH6180250	17.25"				9,464	5,379	115	13.7
DBH6180300	19"				10,561	5,987	135	16.1
DBH6180350	21"				12,090	6,826	155	18.5
DBH6200200	15.4"	78.75"			8,564	4,808	103	12.3
DBH6200250	17.25"				10,539	5,984	125	14.9
DBH6200300	19"				11,773	6,678	149	17.5
DBH6200350	21"				13,518	7,614	169	20.2
DBH6250200	15.4"	98.5"			10,704	6,033	100	14.6
DBH6250250	17.25"				13,242	7,500	150	17.8
DBH6250300	19"				14,832	8,423	175	21.0
DBH6250350	21"				17,139	9,599	202	24.3
DBH6280200	15.4"	110.25"			11,987	6,772	142	17.0
DBH6280250	17.25"				14,871	8,410	174	20.8
DBH6280300	19"				16,677	9,478	205	24.6
DBH6280350	21"				19,340	10,795	238	28.4

**outputs based on water supply temperatures @ 20°Δ T x 68°F room temperature
All Bench Radiators: Test Pressure: 191 psi Max Operating Pressure: 147 psi

***In stock product.* All others are custom order.**
Stock color is grey legs and white radiator. All other colors are custom order.

TOP NOT INCLUDED
(Sold Separately)

DELTA BENCH - TOPS				
Product Code	Length (inch)	Width (inch)	Weight (lbs)	Description
*AZ13DZ836150	59"	8.5"	52	Beachwood
AZ13DZ836180	71"		59	Beachwood
AZ13DZ836200	79"		65	Beachwood
AZ13DZ836250	99"		79	Beachwood
AZ13DZ836280	110"		90	Beachwood

Custom cut template is available for to manufacture your own top

ECOSTYLE STEEL PANEL RADIATORS

Technical Specifications

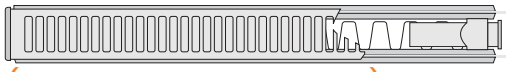
- Material : High quality, low carbon, cold rolled DC01 steel in accordance with PN-EN 10130
- Water channel spacing: 1.3 inches
- Connections: 2 - ½" bottom and 4 – ½" side connections
- Working pressure: 147 psi •Test Pressure: 191 psi
- Color: RAL 9016 white, other colors are available upon special request
- Package of clamp brackets are packed in radiator packaging
- Plugs, air vent and TRV insert are installed in radiator

Ecostyle PCV, RCV and CV Steel Panel Radiators

Ecostyle CV Steel Panel Radiator

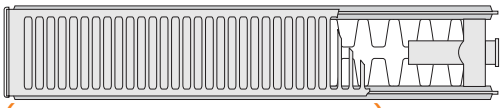
Ecostyle CV
TYPE 21 & 22

Type 21



(2 Panels, 1 Convectors)

Type 22



(2 Panels, 2 Convectors)

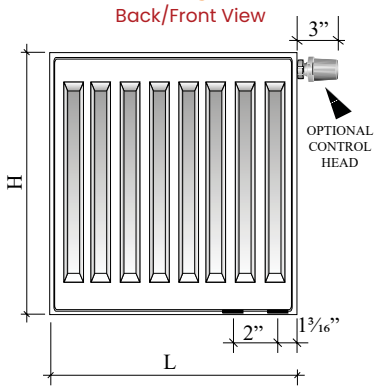
Standard Features

- Internal thermostatic valve body
- Contoured side panels and top grille
- Adjustable mounting brackets
- Installed: plugs and air vent

Actual Dimensions

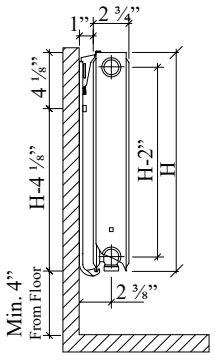
Horizontal Type 21 & 22

Back/Front View



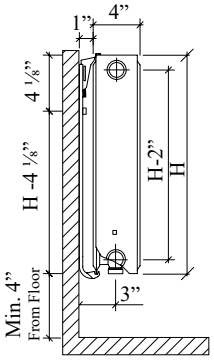
Type 21

Side View



Type 22

Side View



Special Order Items

For additional types and sizes contact QHT Inc. for more info.

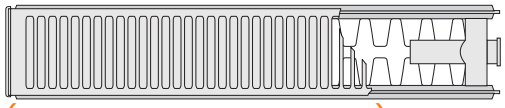
Horizontal Panels Type 22
6 Pipe Connection Panels (1/2” BSP Female)

Product Code (MODEL/HEIGHT/LENGTH/TYPE) (EXAMPLE=ECS/8/24/21CV)	Height (inch)	Length (inch)	Output (BTU/HR) @ 180°F x 68°F**	Output (BTU/HR) @ 140°F x 68°F**	Weight (lbs)	Water Content (gal)
ECS8 2421CV	8”	24”	1,346	781	14	.40
ECS8 3621CV		36”	2,022	1,173	22	.60
ECS8 4821CV		48”	2,698	1,565	29	.80
ECS8 5621CV		56”	3,147	1,825	34	.90
ECS8 7121CV		71”	4,046	2,347	43	1.2
ECS8 9221CV		92”	5,172	3,000	55	1.5
ECS8 12021CV		120”	6,742	3,910	77	2.0
ECS12 1622CV	12”	16”	1,705	1,031	15	.37
ECS12 2422CV		24”	2,562	1,548	22	.53
ECS12 3222CV		32”	3,414	2,064	29	.71
ECS12 4022CV		40”	4,266	2,579	37	.90
ECS12 4822CV		48”	5,119	3,094	44	1.08
ECS12 5622CV		56”	5,971	3,610	51	1.27
ECS12 6422CV		64”	6,828	4,128	58	1.43
ECS16 1622CV	16”	16”	2,167	1,310	20	.48
ECS16 2422CV		24”	3,254	1,967	30	.71
ECS16 3222CV		32”	4,337	2,622	40	.95
ECS16 4022CV		40”	5,421	3,277	49	1.19
ECS16 4822CV		48”	6,504	3,932	59	1.43
ECS16 5622CV		56”	7,587	4,586	69	1.66
ECS16 6422CV		64”	8,675	5,244	78	1.90
ECS16 7122CV		71”	9,758	5,899	88	2.11
ECS20 1622CV	20”	16”	2,610	1,578	25	.58
ECS20 2422CV		24”	3,916	2,367	37	.87
ECS20 3222CV		32”	5,221	3,156	50	1.14
ECS20 4022CV		40”	6,526	3,945	62	1.43
ECS20 4822CV		48”	7,831	4,734	74	1.72
ECS20 5622CV		56”	9,137	5,523	86	2.01
ECS20 6422CV		64”	10,442	6,312	98	2.30
ECS24 1622CV	24”	16”	3,037	1,836	30	.69
ECS24 2422CV		24”	4,551	2,751	45	1.06
ECS24 3222CV		32”	6,069	3,669	60	1.40
ECS24 4022CV		40”	7,587	4,586	74	1.74
ECS24 4822CV		48”	9,106	5,504	89	2.09
ECS24 5622CV		56”	10,624	6,422	104	2.43
ECS24 6422CV		64”	12,138	7,337	118	2.80
ECS24 7122CV		71”	13,656	8,255	133	3.14
ECS36 1622CV	36”	16”	4,240	2,563	46	.95
ECS36 2422CV		24”	6,362	3,846	68	1.43
ECS36 3222CV		32”	8,480	5,126	90	1.90
ECS36 4022CV		40”	10,602	6,409	112	2.38
ECS36 4822CV		48”	12,724	7,691	135	2.85
ECS77 1221CV	77”	12”	3,903	2,340	61	1.9
ECS77 1821CV		18”	5,848	3,509	91	2.9
ECS77 2421CV		24”	7,793	4,674	122	3.9

**outputs based on water supply temperatures @ 20°Δ T x 68°F room temperature
All CV Radiators: Test Pressure: 191 psi - Max Operating Pressure: 147 psi

Ecostyle PCV Steel Panel Radiator

Type 22



(2 Panels, 2 Convectors)

Ecostyle PCV
Smooth Front Panel

Horizontal Panels Type 21 and Type 22
6 Pipe Connection Panels (1/2")

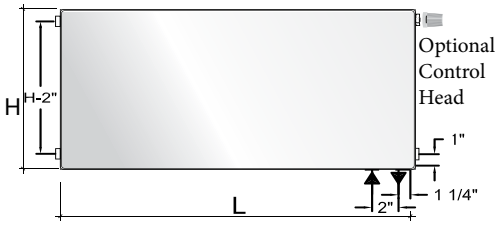
Product Code (MODEL/HEIGHT/LENGTH/TYPE) (EXAMPLE=PCV/8/24/21)	Height (inch)	Length (inch)	Output (BTU/HR) @ 180°F x 68°F**	Output (BTU/HR) @ 140°F x 68°F**	Weight (lbs)	Water Content (gal)
PCV12 1622	12"	16"	1,705	1,031	18	.37
PCV12 2422		24"	2,562	1,548	27	.53
PCV12 3222		32"	3,414	2,064	35	.71
PCV12 4022		40"	4,266	2,579	45	.90
PCV12 4822		48"	5,119	3,094	54	1.08
PCV12 5622		56"	5,971	3,610	62	1.27
PCV12 6422		64"	6,828	4,128	71	1.43
PCV16 1622	16"	16"	2,167	1,310	24	.48
PCV16 2422		24"	3,254	1,967	37	.71
PCV16 3222		32"	4,337	2,622	49	.95
PCV16 4022		40"	5,421	3,277	60	1.19
PCV16 4822		48"	6,504	3,932	72	1.43
PCV16 5622		56"	7,587	4,586	84	1.66
PCV16 6422		64"	8,675	5,244	95	1.90
PCV16 7122		71"	9,758	5,899	107	2.11
PCV20 1622	20"	16"	2,610	1,578	30	.58
PCV20 2422		24"	3,916	2,367	45	.87
PCV20 3222		32"	5,221	3,156	61	1.14
PCV20 4022		40"	6,526	3,945	76	1.43
PCV20 4822		48"	7,831	4,734	90	1.72
PCV20 5622		56"	9,137	5,523	105	2.01
PCV206422		64"	10,442	6,312	120	2.30
PCV24 1622	24"	16"	3,037	1,836	37	.69
PCV24 2422		24"	4,551	2,751	55	1.06
PCV24 3222		32"	6,069	3,669	73	1.40
PCV24 4022		40"	7,587	4,586	90	1.74
PCV24 4822		48"	9,106	5,504	109	2.09
PCV24 5622		56"	10,624	6,422	127	2.43
PCV24 6422		64"	12,138	7,337	144	2.80
PCV24 7122		71"	13,656	8,255	162	3.14
PCV36 1622	36"	16"	4,240	2,563	56	.95
PCV36 2422		24"	6,362	3,846	83	1.43
PCV36 3222		32"	8,480	5,126	110	1.90
PCV36 4022		40"	10,602	6,409	137	2.38
PCV36 4822		48"	12,724	7,691	165	2.85

**outputs based on water supply temperatures @ 20°Δ T x 68°F room temperature
All PCV Radiators: Test Pressure: 191 psi - Max Operating Pressure: 147 psi

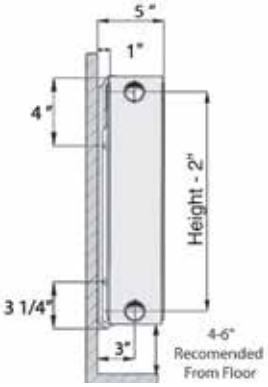
Standard Features

- Internal thermostatic valve body
- Contoured side panels and top grille
- Adjustable mounting brackets
- Installed: plugs and air vent

Actual Dimensions
Type 22



Type 22



Special Order Items

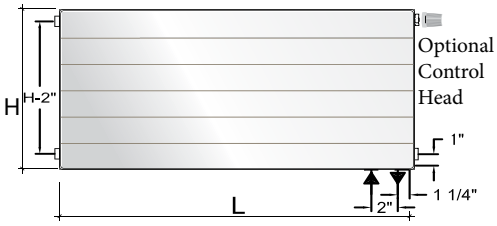
For additional types and sizes contact QHT Inc. for more info.

Ecostyle RCV Steel Panel Radiator

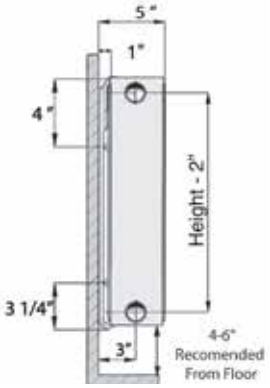
Ecostyle RCV
Ribbed Front Panel

Standard Features
- Internal thermostatic valve body
- Contoured side panels and top grille
- Adjustable mounting brackets
- Installed: plugs and air vent

Actual Dimensions
Type 22

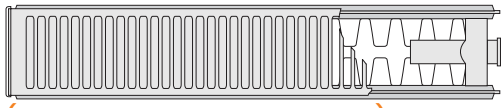


Type 22



Special Order Items
For additional types and sizes contact QHT Inc. for more info.

Type 22



(2 Panels, 2 Convectors)

Horizontal Panels Type 22
6 Pipe Connection Panels (1/2")

Product Code (MODEL/HEIGHT/LENGTH/TYPE) (EXAMPLE=RCV/8/24/21)	Height (inch)	Length (inch)	Output (BTU/HR) @ 180°F x 68°F**	Output (BTU/HR) @ 140°F x 68°F**	Weight (lbs)	Water Content (gal)
RCV12 1622	12"	16"	1,705	1,031	18	.37
RCV12 2422		24"	2,562	1,548	27	.53
RCV12 3222		32"	3,414	2,064	35	.71
RCV12 4022		40"	4,266	2,579	45	.90
RCV12 4822		48"	5,119	3,094	54	1.08
RCV12 5622		56"	5,971	3,610	62	1.27
RCV12 6422		64"	6,828	4,128	71	1.43
RCV16 1622	16"	16"	2,167	1,310	24	.48
RCV16 2422		24"	3,254	1,967	37	.71
RCV16 3222		32"	4,337	2,622	49	.95
RCV16 4022		40"	5,421	3,277	60	1.19
RCV16 4822		48"	6,504	3,932	72	1.43
RCV16 5622		56"	7,587	4,586	84	1.66
RCV16 6422		64"	8,675	5,244	95	1.90
RCV16 7122		71"	9,758	5,899	107	2.11
RCV20 1622	20"	16"	2,610	1,578	30	.58
RCV20 2422		24"	3,916	2,367	45	.87
RCV20 3222		32"	5,221	3,156	61	1.14
RCV20 4022		40"	6,526	3,945	76	1.43
RCV20 4822		48"	7,831	4,734	90	1.72
RCV20 5622		56"	9,137	5,523	105	2.01
RCV206422		64"	10,442	6,312	120	2.30
RCV24 1622	24"	16"	3,037	1,836	37	.69
RCV24 2422		24"	4,551	2,751	55	1.06
RCV24 3222		32"	6,069	3,669	73	1.40
RCV24 4022		40"	7,587	4,586	90	1.74
RCV24 4822		48"	9,106	5,504	109	2.09
RCV24 5622		56"	10,624	6,422	127	2.43
RCV24 6422		64"	12,138	7,337	144	2.80
RCV24 7122		71"	13,656	8,255	162	3.14
RCV36 1622	36"	16"	4,240	2,563	56	.95
RCV36 2422		24"	6,362	3,846	83	1.43
RCV36 3222		32"	8,480	5,126	110	1.90
RCV36 4022		40"	10,602	6,409	137	2.38
RCV36 4822		48"	12,724	7,691	165	2.85

**outputs based on water supply temperatures @ 20°Δ T x 68°F room temperature
All RCV Radiators: Test Pressure: 191 psi - Max Operating Pressure: 147 psi

ARCHITECTURAL TUBE RADIATOR

The modular structure of the Architectural Tube Radiators provide a high class finish to your homes appearance. The rounded side panels and the top decorative grille elegantly hide the convector fins all while allowing maximum heat output. Available in both horizontal and vertical. A great alternative to baseboard heaters that can take up all the wall space of a room.

10 YEAR QUALITY GUARANTEE

Technical Specifications

- Material : High quality, low carbon, cold rolled DC01 steel in accordance with PN-EN 10130
- Connections: 4-1/2" side connections
- Working pressure: 72 psi
- Test Pressure: 150 psi
- Color: RAL 9016 white, other colors are available upon special request
- Accessories: Brackets, plugs and air vent packaged seperately.

NOTE: Kontec does not have an option for a internal thermostatic valve.

Horizontal Kontec

Vertical Kontec

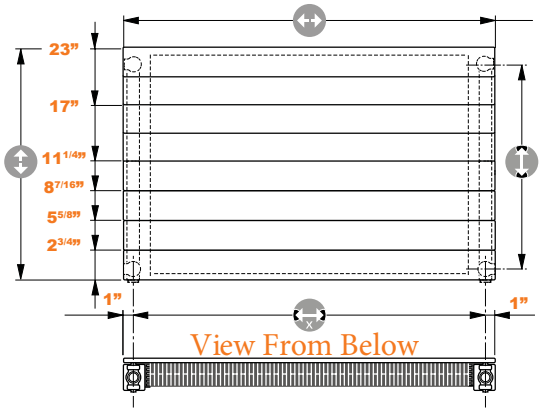
Purmo KONTEC Tube Radiator

Type 11

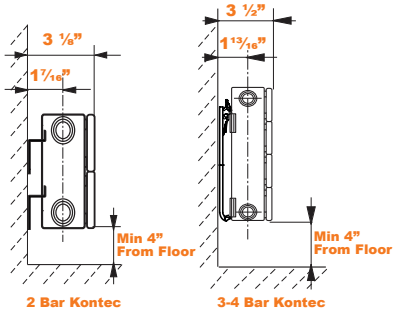
(1 Set of Tubes, 1 Convector)

Actual Dimensions

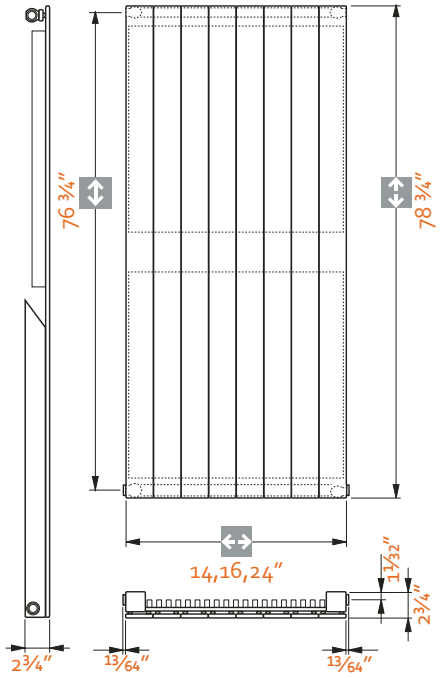
Horizontal Front View



Horizontal Side View



Vertical Dimensions



Horizontal Radiators (Sizes in chart are fully stocked)
4 Connections- (1/2” BSP Female)

Radiator Model	Type	Tubes	Height (in)	Length (in)	Output (BTU/ HR) @ 180°F	Output (BTU/ HR) @ 140°F	Weight (lbs)	Water Content (gal)
KK062411	11	2	5 5/8”	24	1,254	702	11	0.18
KK063611				36	1,881	1,055	16	0.27
KK064811				48	2,508	1,404	21	0.36
KK066311				63	3,150	1,843	28	0.47
KK067111				71	3,762	2,077	31	0.53
KK068711				87	4,423	2,545	38	0.65
KK069511				95	5,016	2,780	42	0.72
KK0611911				119	6,270	3,510	54	1.00
KK092411	11	3	8 7/16”	24	1,518	849	15	0.26
KK093611				36	2,282	1,277	22	0.39
KK094811				48	3,041	1,702	30	0.52
KK096311				63	4,051	2,267	39	0.69
KK097111				71	4,558	2,551	44	0.78
KK099511				95	6,082	3,404	59	1.05
KK0911911				119	7,599	4,253	61	1.57
KK122411	11	4	11 1/4”	24	1,754	888	20	0.40
KK123611				36	2,631	1,332	30	0.50
KK124811				48	3,508	1,776	39	0.70
KK126311				63	4,604	2,331	52	0.90
KK127111				71	5,262	2,664	59	1.10
KK129511				95	6,797	3,441	76	1.40
KH172411	11	6	16 15/16”	24	2,932	1,642	27	52
KH173211				32	3,909	2,189	36	.69
KH174011				40	4,887	2,737	45	.87
KH174811				48	5,864	3,284	54	1.04
KH177111				71	8,796	4,926	71	1.56
KH1711911				119	14,660	8,210	133	2.60
KH232411	11	8	22 5/8”	24	3,556	1,992	35	.72
KH233611				36	5,334	2,988	53	1.08
KH234011				40	5,927	3,320	59	1.20
KH234811				48	7,112	3,984	71	1.44

Vertical Radiators (Sizes in chart are fully stocked)
4 Connections- (1/2” BSP Female)

KS791411	11	5	78 47/64”	14	3,865	2,163	59	1.32
KS791711		6		17	4,646	2,600	70	1.54
KS792311		8		24	5,421	3,034	80	1.77

**outputs based on water supply temperatures @ 20°Δ T x 68°F room temperature
All Kontec Radiators: Test Pressure: 191 psi Max Operating Pressure: 147 psi

Special Order Items

For additional types and sizes contact QHT Inc. for more info.

Standard Features

- White enameled appliance finish
- Contoured side panels and top grille
- Installed: plugs and air vent

ECOSTYLE TOWEL BARS

Bringing together premium quality and efficiency with designer looks, the Ecostyle Towel Bars are tubular radiators that have been used in Europe to heat towels as well as whole bathrooms, kitchens, and hallways, without wasting valuable wall space. These towel bars provide comfort and elegance to all types of interiors.

5 YEAR QUALITY GUARANTEE

Technical Specifications

- Material : Carbon Steel
- Connections:
  - SR Units: (3) 1/2" BSP connections
  - TR & CN Units: (5) 1/2" BSP Connections
- Working pressure: 72 psi
- Test Pressure: 150 psi Tested to EN-442 regulations
- Color: Custom colors are available upon special request, with added cost
- Accessories: Mounting brackets, plug and air vent are included.

  <u>All Valves and Connection Fittings Must Be Purchased Separately.</u>

Ecostyle SR Towel Bar Radiator
Matte Black and Enameled White Finish

Ecostyle TR & CN Designer Towel Bar Radiator
Anthracite and Mineral White Finish

Ecostyle SR Towel Bar Radiators

Dimensions And Outputs

3 Connections- (1/2" BSP Female) (All items in chart are fully stocked)

Radiator Model #	FINISH	STYLE	Width (in)	Height (in)	Output (BTU/HR) @ 180°F	Output (BTU/HR) @ 140°F	Weight (lbs)	Water Content (gal)
ECSSR2724SW	WHITE	STRAIGHT	23 ¾"	27 11/64"	1,535	835	12	1.0
ECSSR2724CW	WHITE	CURVED						
ECSSR4324SW	WHITE	STRAIGHT		43 45/64"	2,382	1,296	20	1.5
ECSSR4324CW	WHITE	CURVED						
ECSSR5524SW	WHITE	STRAIGHT		55 29/32"	3,117	1,696	25	1.9
ECSSR2724SB	MATTE BLACK	STRAIGHT		27 11/64"	1,535	835	12	1.0
ECSSR4324SB	MATTE BLACK	STRAIGHT		43 45/64"	2,382	1,296	25	1.9

TR Units have SWING-OUT arm for easy towel placement.

Ecostyle TR Towel Bar Radiators

Dimensions And Outputs

5 Connections- (1/2" BSP Female) (All items in chart are fully stocked)

Radiator Model #	FINISH	STYLE	Width (in)	Height (in)	Output (BTU/HR) @ 180°F	Output (BTU/HR) @ 140°F	Weight (lbs)	Water Content (gal)
ECSTR3822SMW	MINERAL WHITE	STRAIGHT	21 ¾"	37 ½"	1,876	1,459	29	1.0
ECSTR3822SA	ANTHRACITE	STRAIGHT		37 ½"	1,876	1,459	29	1.0

Ecostyle CN Towel Bar Radiators

Dimensions And Outputs

5 Connections- (1/2" BSP Female) (All items in chart are fully stocked)

Radiator Model #	FINISH	STYLE	Width (in)	Height (in)	Output (BTU/HR) @ 180°F	Output (BTU/HR) @ 140°F	Weight (lbs)	Water Content (gal)
ECSCN3224SW	WHITE	STRAIGHT	23 ¾"	31 ½"	1,670	1,299	22.5	1.4
ECSCN4824SW	WHITE	STRAIGHT		47 ¼"	2,281	1,774	29.75	1.9
ECSCN3224SA	MATTE BLACK	STRAIGHT		31 ½"	1,670	1,299	22.5	1.4
ECSCN4824SA	MATTE BLACK	STRAIGHT		47 ¼"	2,281	1,774	29.75	1.9

Scan Here For Installation Details. or go to Ecostyle.us for more info.

Standard Features

- High Quailty Finishes
- Wall Mounting Brackets Included
- Manual Coin Air Vent Included

RADIATOR / TOWEL BAR VALVES AND FITTINGS

Radiator Fittings
(WORKS WITH ALL RADIATORS and TOWEL BARS)

RV-NA10534

Universal PEX Fittings
Compatible with any ASTM F876 single layer PEX.
Max. working pressure: 150 psi.
Working temperature: 41-180°F.
Chrome plated nut.

RV-NA10535

Sweat and Compression fittings fit 1/2" copper.
Max. working pressure: 150 psi.
Working temperature: 41-250°F.
Chrome plated nut.

ALL FITTINGS COME WITH CONICAL RADIATOR ADAPTER

PART #	DESCRIPTION
RV-NA10536	3/8" Nominal PEX
RV-NA10534	1/2" Nominal PEX
RV-NA10537	5/8" Nominal PEX
RV-NA10535	1/2" Copper Sweat
RV-NA10555	1/2" Copper Compression

Radiator Valves For Bottom Connections

RV-NA10530 RV-NA10532

RV-NA10531 RV-NA10533

Valves for panel radiators that have built-in thermostatic valve unit. Available in two-pipe straight and angled versions. These Valves fit 1/2" female radiator adapters supplied with fittings. Diverter valves allow a by-pass of 30 to 50%. Factory set for 35%.
Max. working pressure: 150 psi.
Max. working temperature: 212°F.

PART #	DESCRIPTION
RV-NA10530	1/2" Straight Isolation
RV-NA10531	1/2" Angled Isolation
RV-NA10532	1/2" Straight Diverter
RV-NA10533	1/2" Angled Diverter

NEW !

COLOR MATCHED Shut-off valves for panel radiators and towel bars. Available in two-pipe angled version only. Valves supplied with 1/2" male radiator adapters.
Max. working pressure: 150 psi.
Max. working temperature: 212°F.

RV-383874

RV-383873

RV-383872

PART #	DESCRIPTION
RV-383874	1/2" H-VALVE (VOV09-MINERAL WHITE)
RV-383873	1/2" H-VALVE (VOV12-ANTHRACITE)
RV-383872	1/2" H-VALVE (RAL9016-WHITE)

Radiator Valves For Side Connections
(WORKS WITH ALL RADIATORS and TOWEL BARS)

Angled and Straight radiator valves. Thermostatic versions allow use of a Non-Electric actuator for room temperature control.
Chrome plated.
Max. working pressure: 150 psi.
Temperature range: 40-212°F.

RV-338452 RV-342452

RV-339452 RV-343452

PART #	DESCRIPTION
RV-338452	1/2" Angled Thermostatic
RV-339452	1/2" Straight Termostatic
RV-342452	1/2" Angeled Shutoff
RV-343452	1/2" Straight Shutoff

NEW !

COLOR MATCHED Shut-off valves for panel radiators and towel bars. Available in single pipe angled version only. Valves supplied with 1/2" male radiator adapters.
Max. working pressure: 150 psi.
Max. working temperature: 212°F.

RV-383865

RV-383866

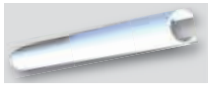
RV-386060

PART #	DESCRIPTION
RV-383866	1/2" SINGLE PIPE(VOV09-MINERAL WHITE)
RV-383865	1/2" SINGLE PIPE(VOV12-ANTHRACITE)
RV-386060	1/2" SINGLE PIPE(RAL9016-WHITE)

Radiator / Towel Bar Accessories

Thermostatic control head fits radiator valves. Set point locking mechanism.
Range stop adjustment.
Built-in sensor with liquid-filled element.
Graduated scale from * to 5 corresponding to a temperature scale adjustment range of 45-82°F (7-28°C).

PART #	DESCRIPTION
RV-TRV	Thermostatic Head (White)



RV-449740 and RV-12550
Fits dual panel radiator valves 301 in white ABS.
Outlet center distance: 2" on center.

PART #	DESCRIPTION
RV-449740	2 Pipe Flex Escutcheon
RV-12550	2 Pipe Rigid Escutcheon
RV-8W SNAP	8" Snap On Plastic Pipe Cover (white)
RV-8C SNAP	8" Snap OnPlastic Pipe Cover (chrome finish)
RV-39W SNAP	39" Snap On Plastic Pipe Cover (white)

(AUTOMATIC AIR VENT)

AUTOMATIC AIR VENT	
PART #	DESCRIPTION
RV-380221	1/2" AUTO AIR BLEEDER

(ROBE Hook)

(S Hook)

TOWEL BAR ROBE HOOKS	
Finish	Part Number
WHITE	ECS388132
CHROME	ECS388133
WHITE (S Hook)	ECS385035

PIPING SCHEMATIC WITH FITTINGS

DIVERTER VALVES

1 RV-NA10532 STRAIGHT DIVERTING VALVE
RV-NA10533 ANGLED DIVERTING VALVE
NOTE: ADJUSTABLE BY-PASS FROM 30-50%

ISOLATION VALVES

2 RV-NA10530 STRAIGHT ISOLATING VALVE
RV-NA10531 ANGLED ISOLATING VALVE

THERMOSTATIC CONTROL

3 RV-TRV THERMOSTATIC CONTROL HEAD
On towel bar valves, use RV-200000

TOWEL BAR VALVES

4 RV-339452 STRAIGHT THERMOSTATIC VALVE
RV-338452 ANGLED THERMOSTATIC VALVE

5 RV-343452 STRAIGHT SHUT-OFF VALVE
RV-342452 ANGLED SHUT-OFF VALVE

6 RADIATOR FITTINGS

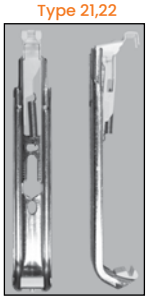
(SOLD AS PAIR, CONICAL ADAPTERS ARE INCLUDED)
RV-NA10555 1/2" COPPER COMPRESSION FITTING
RV-NA10535 1/2" COPPER SWEAT TAIL FITTING
RV-NA10536 3/8" PEX COMPRESSION FITTING
RV-NA10534 1/2" PEX COMPRESSION FITTING
RV-NA10537 5/8" PEX COMPRESSION FITTING

ACCESSORIES

RV-8W SNAP 8" WHITE PLASTIC PIPE COVER
RV-39W SNAP 39" WHITE PLASTIC PIPE COVER
RV-12550 TWO PIPE RIGID ESCUTCHEON
RV-449740 TWO PIPE FLEX ESCUTCHEON
RV-200000 NON-ELECTRIC ACTUATOR

Radiator Mounting Brackets

Type 11 Type 21,22 Type 21,22

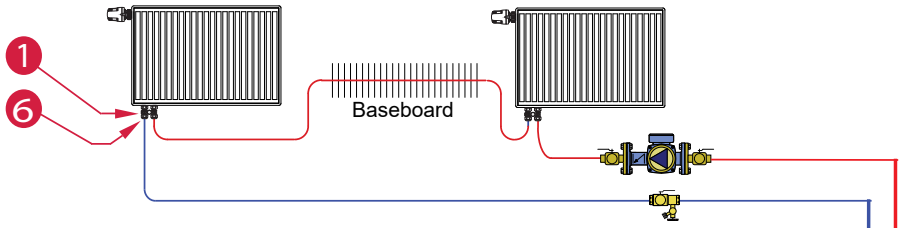


Floor Brackets:
Works with 8, 12, 16, 20, 24" height radiators. Radiator floor mounting bracket. In white. Bolt down design with plastic cover to hide plate and screws.

PART #	DESCRIPTION
ECS-FLRBRKT	FLOOR BRACKET FITS TYPE 21,22
	FLOOR BRACKET FITS TYPE 11
ECS8CLAMP	Radiator Wall Bracket Type 21
ECS12CLAMP	Radiator Wall Bracket Type 22
ECS16CLAMP	Radiator Wall Bracket Type 22
ECS20CLAMP	Radiator Wall Bracket Type 22
ECS24CLAMP	Radiator Wall Bracket Type 22
ECS36CLAMP	Radiator Wall Bracket Type 22
RV-50425	TOGGLER 1/4-20 X 2 1/2 Drywall Anchor (sold in pack of 10)

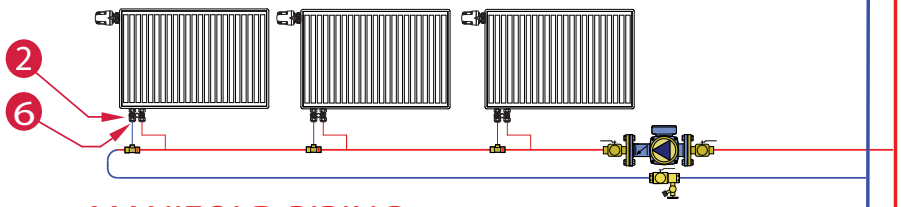
NOTES: SERIES PIPING

- RECOMMENDED MAX OF 3 RADIATORS ON ONE LOOP
- THERMOSTATIC CONTROL (RV-200000)CAN BE USED FOR INDIVIDUAL RADIATOR ADJUSTMENT



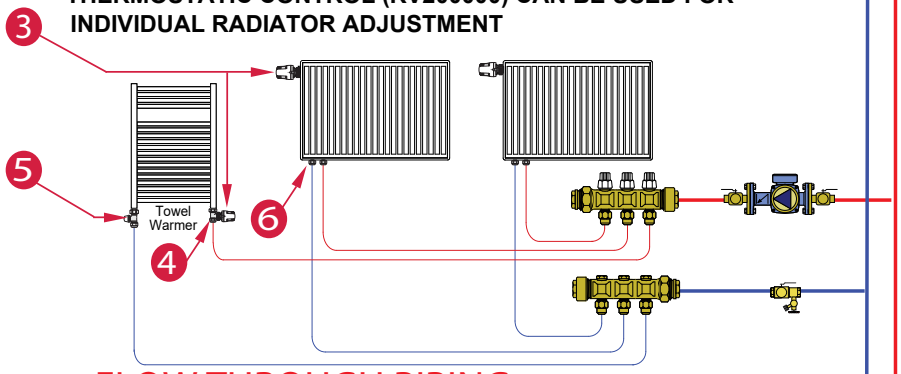
NOTES: MONOFLOW TEE PIPING

- MONOFLOW TEES SHOULD BE INSTALLED ON RETURN PIPE FROM RADIATOR
- SUPPLY AND RETURN TEES MUST BE AT LEAST 12 INCHES APART
- THERMOSTATIC CONTROL (RV200000) CAN BE USED FOR INDIVIDUAL RADIATOR ADJUSTMENT



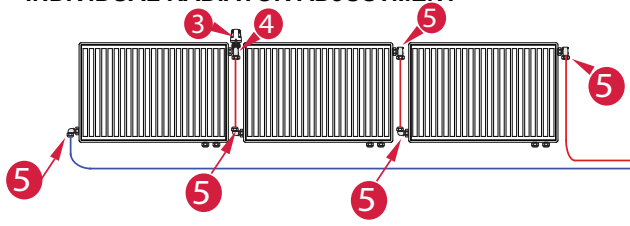
NOTES: MANIFOLD PIPING

- ISOLATION VALVES (RV-NA10530,RV-NA10531) ARE NOT REQUIRED, BUT ARE RECOMMENDED
- THERMOSTATIC CONTROL (RV200000) CAN BE USED FOR INDIVIDUAL RADIATOR ADJUSTMENT



NOTES: FLOW THROUGH PIPING using side tappings

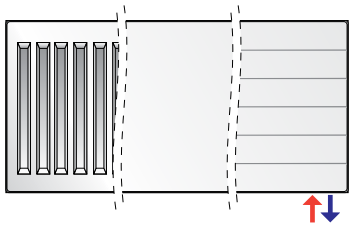
- ISOLATION OR THERMOSTATIC VALVES (RV-338452, RV-342452, RV-339452, RV-343452)
- THERMOSTATIC CONTROL (RV200000) CAN BE USED FOR INDIVIDUAL RADIATOR ADJUSTMENT



CONNECTION METHODS

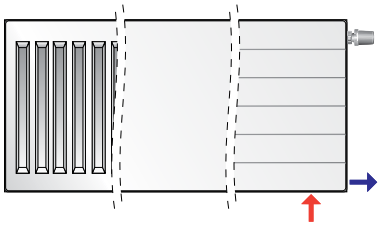
Bottom Connection

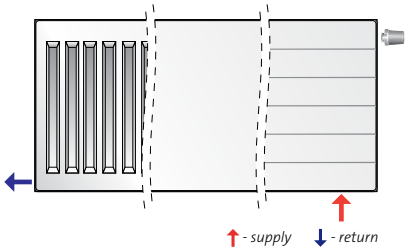
This connection method is used with the bottom-supplied radiators. The supply and return line axes are always located, respectively, 3" and 1" from the side edge of the radiator. Reversed connection will cause a drop in the heat output of over 30%.



Intermediate Connection

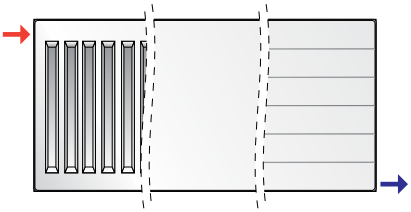
The bottom-supplied radiators can be connected in parallel with the side and bottom connections. Possible are intermediate solutions presented at the drawings: side and flow-through connections.





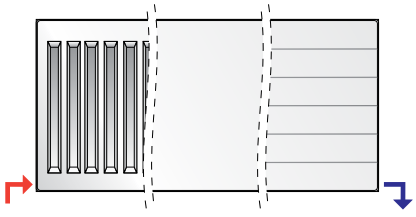
Flow-Through Connection

Recommended for the radiators of length exceeding 80" and also for the radiators of length exceeding four times their height.
These connections provide even distribution of temperature over the entire length of the radiator. The supply line should be connected to the left or right connector pipe and the return line should be connected to the opposite, bottom connections. Reversed connection will cause a drop in the heat output of over 30%.
This flow-through connection method can be used in the side-supplied radiators as well as in the bottom-supplied radiators after the removal of a thermostatic valve insert.



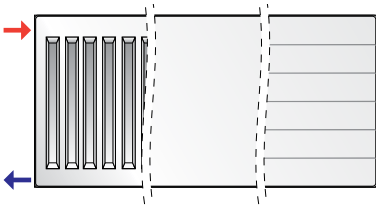
Opposite Ends Connection

With this connection method, the heat output of the radiators will be approximately 10% lower than the rated heat output. This type of connection method is most commonly used with the side-supplied radiators when the heating system piping is distributed in skirting boards above the floor. It can also be used with the bottom-supplied radiators after the removal of a thermostatic valve insert.



Side Connection

The most popular solution is connecting radiators on either the right or the left side. The supply line should be connected to the top and the return line to the bottom connector pipe of the radiator. Reversed connection will cause a drop in the heat output of over 30%. This side connection method can be used in the side-supplied radiators as well as in the bottom-supplied radiators after the removal of a thermostatic valve insert.



CORRECTION FACTORS

Water Temperature		Room Temperature (°F)						
Supply (°F)	Return (°F)	52	56	60	64	68	72	76
200	185	1.38	1.34	1.30	1.26	1.22	1.19	1.14
200	180	1.35	1.32	1.28	1.23	1.20	1.16	1.12
200	175	1.33	1.29	1.25	1.21	1.17	1.14	1.09
200	170	1.30	1.26	1.22	1.18	1.14	1.11	1.07
190	175	1.28	1.24	1.20	1.16	1.12	1.09	1.05
190	170	1.26	1.22	1.18	1.13	1.10	1.06	1.02
190	165	1.23	1.19	1.15	1.11	1.07	1.04	0.99
190	160	1.20	1.16	1.12	1.08	1.05	1.01	0.97
180	165	1.18	1.14	1.10	1.06	1.03	0.99	0.95
180	160	1.16	1.12	1.08	1.04	1.00	0.96	0.92
180	155	1.13	1.09	1.05	1.01	0.97	0.94	0.89
180	150	1.10	1.07	1.03	0.98	0.95	0.91	0.87
170	155	1.09	1.05	1.01	0.96	0.93	0.89	0.85
170	150	1.06	1.02	0.98	0.94	0.90	0.87	0.82
170	145	1.03	0.99	0.95	0.91	0.87	0.84	0.80
170	140	1.01	0.97	0.93	0.88	0.85	0.81	0.77
160	145	0.99	0.95	0.91	0.86	0.83	0.79	0.75
160	140	0.96	0.92	0.88	0.84	0.80	0.77	0.72
160	135	0.93	0.89	0.85	0.81	0.78	0.74	0.70
160	130	0.91	0.87	0.83	0.78	0.75	0.71	0.67
150	135	0.89	0.85	0.81	0.77	0.73	0.69	0.65
150	130	0.86	0.82	0.78	0.74	0.70	0.67	0.62
150	125	0.83	0.80	0.76	0.71	0.68	0.64	0.60
150	120	0.81	0.77	0.73	0.68	0.65	0.61	0.57
140	125	0.79	0.75	0.71	0.67	0.63	0.60	0.55
140	120	0.76	0.72	0.68	0.64	0.60	0.57	0.53
140	115	0.74	0.70	0.66	0.61	0.58	0.54	0.50
140	110	0.71	0.67	0.63	0.58	0.55	0.51	0.47
130	115	0.69	0.65	0.61	0.57	0.53	0.50	0.45
130	110	0.66	0.62	0.58	0.54	0.51	0.47	0.43
130	105	0.64	0.60	0.56	0.51	0.48	0.44	0.40
130	100	0.61	0.57	0.53	0.48	0.45	0.41	0.36
120	105	0.59	0.55	0.51	0.47	0.43	0.40	0.35
120	100	0.56	0.53	0.49	0.44	0.41	0.37	0.32
120	95	0.54	0.50	0.46	0.41	0.38	0.34	0.29
120	90	0.51	0.47	0.43	0.38	0.34	0.31	0.26

To use conversion table:

1. Find output at standard conditions listed.
2. Find conversion factor at desired supply, return and room temperatures.
3. New output equals output at standard conditions multiplied by conversion factor.

Example:

Radiator ECS-48.24SW has an output of 2,881 BTU at standard conditions (180°F Supply temp & 68°F Room temp).
The output at a supply temp of 160°F, a return temp of 145°F and a room temp or 72°F would be 2881 BTU x 0.79 = 2276 BTU.

WHISPA III KICK SPACE HEATERS

Whispa III Kickspace Fan Convectors are engineered to simply last longer, stay quieter and deliver a heat output you can rely on for accuracy and reliability year after year. It fits easily under a counter, window seat or stairs.

Whispa E50K Kickspace Fan Convectors deliver efficient heating from a compact, well-designed stylish electric fan convector. For rapid heat-up, room-to-room comfort, safety and reliability, the Whispa E50K offers unmatched performance for hard-to-heat areas such as kitchens, halls, stairways and bathrooms.

Technical Specifications

- Standard Connections: **1/2" Copper tubes for supply and return**
- Maximum positive operating pressure: 145 psi
- Maximum operating temperature: 200°F
- Electrical Specifications: 120 Vac/60Hz

Electric Model: WE50K

Hydronic Model: W5000, W7000, W9000

Optional Flexible EZ Hose Kit
(For Hydronic Model)

Whispa III Kick Space Heaters (Hydronic and Electric)

Hydronic Heating Performance Data and Specs (Requires 120 Vac/ 60Hz)

Model	Fan Setting	Flow	Flowrate (GPM)	Heat Output (BTU/HR) Entering Water Temperature (°F), Entering Air Temperature (65°F)										Motor Power (W)	Water Content (oz)	Unit Weight (lbs)	Sound Level (dB@8')
				110	120	130	140	150	160	170	180	190	200				
M-W5000	Boost	53	3	2040	2516	2997	3480	3967	4457	4949	5443	5939	6437	25	5	9.5	38.1
	Normal	41		1749	2096	2437	2773	3104	3432	3756	4078	4397	4713				25.7
	Boost	53	1	1795	2214	2637	3063	3491	3922	4355	4790	5226	5664				38.1
	Normal	41		1539	1844	2144	2440	2732	3020	3306	3589	3869	4147				25.7
M-W7000	Boost	81	3	2758	3419	4089	4766	5450	6140	6834	7534	8238	8946	40	10	10.3	37.2
	Normal	62		1673	2204	2771	3373	4004	4665	5351	6062	6797	7554				26.4
	Boost	81	1	2427	3009	3598	4194	4796	5403	6014	6630	7249	7872				37.2
	Normal	62		1473	1939	2439	2968	3524	4105	4709	5335	5981	6648				26.4
M-W9000	Boost	124	3	3759	4629	5504	6385	7271	8160	9053	9949	10848	11750	40	11.5	11	49.8
	Normal	82		3266	3916	4556	5185	5807	6422	7031	7634	8233	8827				28.5
	Boost	124	1	3308	4073	4844	5619	6398	7181	7967	8755	9546	10340				49.8
	Normal	82		2874	3446	4009	4563	5110	5652	6187	6718	7245	7767				28.5

Heat outputs tested in accordance with BS 4856 Part 1

Electric Heating Performance Data and Specs (Requires 120 Vac/ 60Hz)

Model	Settings	Watts	BTU/HR	Amps	Equivalent Baseboard	Weight (lbs)	Height (")	Width (")	Depth (")
ME50K	High	2000	6,824	16.7	11.8'	6.9	3 3/8"	15 1/2"	8 7/8"
	Low	1000	3,412	8.3	5.9'				

Delivers up to 6,824 BTU's

Available Grill Options: Black Is standard

PART #	DESCRIPTION
M-W5WH	White Grill For M-W5000
M-W7WH	White Grill For M-W7000
M-W9WH	White Grill For M-W9000
M-WEWH	White Grill For M-WE50K
M-W5SS	Stainless Grill For M-W5000
M-W7SS	Stainless Grill For M-W7000
M-W9SS	Stainless Grill For M-W9000
M-WESS	Stainless Grill For M-WE50K
M-W5CH	Chrome Grill For M-W5000
M-W7CH	Chrome Grill For M-W7000
M-W9CH	Chrome Grill For M-W9000
M-WECH	Chrome Grill For M-WE50K

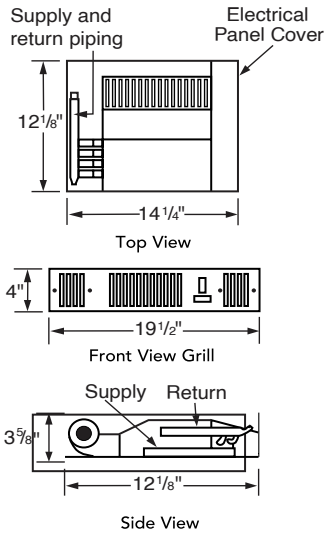
Optional Flexible EZ Hose Kit (For Hydronic Model)

M-EZHOSE

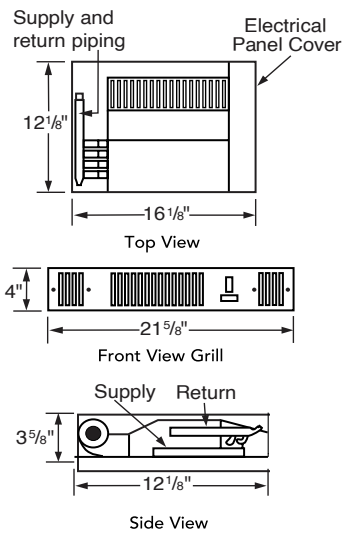
Electric Model: WE50K

Grill Options

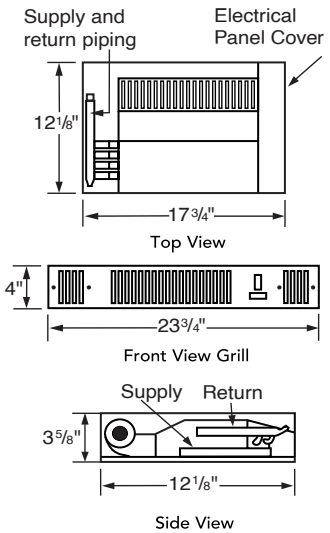
WH III 5000 Kickspace Heater

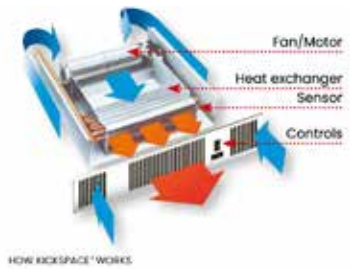


WH III 7000 Kickspace Heater



WH III 9000 Kickspace Heater





iVector S2-
Smart Hydronic Fan Convectors

A smart way to
improve indoor climate

Today, both renovation and new building projects have strict standards that raise the bar for overall efficiencies. At the same time, there is a demand to reduce dependence on finite energy sources, cut emissions and lower overall costs. Modern heating systems are designed to work at significantly lower temperatures to help improve system efficiency, achieve meaningful energy savings and improve indoor climate comfort.

MEET THE NEWEST GENERATION OF FAN CONVECTORS

The iVector S2 is the whisper-quiet fan convector from Purmo. With an attractive, compact design the iVector S2 can provide high heating performance whilst operating at low temperatures and with low water content. This provides efficient energy use without sacrificing outputs.

When combined with a reversible heat pump or a separate cooling source, the iVector S2 can offer both heating and cooling functions, making it a perfect solution for both commercial and domestic use.

The iVector S2 offers many installation options such as in-wall, on-wall and ceiling mounting, this allows for great flexibility in interior design, with energy-efficient advantages. Combining the product with other low temperature systems, for example underfloor heating, provides an ideal combination for the optimum indoor climate comfort. The iVector S2 is also the perfect solution for rooms not in regular use such as guest rooms or hobby rooms thanks to rapid heat-up times.

iVector S2 –
A new generation fan convector

SILENCE… LISTEN

At last here is a fan convector that offers innovative solutions for heating, cooling and dehumidification systems. Thanks to its ingenious and highly-accurate controls the iVector S2 provides optimal comfort all year round. It is equipped with a highly-efficient DC motor with performance and fan speed controlled using pulse width modulation (PWM) which significantly reduces noise and vibrations.

All Purmo fan convectors have been designed to reduce noise levels as far as possible and to make installation as simple as can be.

RAPID HEAT-UP AND EASY INSTALLATION

Due to its low water content the new iVector S2 operates quickly and efficiently. Conventional fan convectors are sluggish and thus less efficient. Thanks to its simple design the iVector S2 is very simple to install.

CONTROLS WITH A HIGH IQ FOR SMART HOMES

Like no other fan convector the iVector S2 is ideally suited to modern building management systems and can be controlled centrally. Even individual users benefit from the simple-to-use controls. In this way it's also possible in summer to operate in cooling mode and to cool rooms without using an air conditioning system.

SLIMLINE DESIGN

Aesthetically pleasing, the iVector S2's slimline design allows for discreet positioning without compromising performance. Whether it be wall or ceiling mounted, or recessed the iVector S2 will blend into its environment seamlessly.

FACTS

The iVector S2 Series features:

- fast reaction time
- extremely high performance
- flexible control options
- heating and cooling function
- easy installation
- whisper-quiet operation

Not to be used in high humidity conditions

MOUNTING OPTIONS

Wall Mounted

Wall Mounted with Optional Feet

Wall Installation

Ceiling Mounted

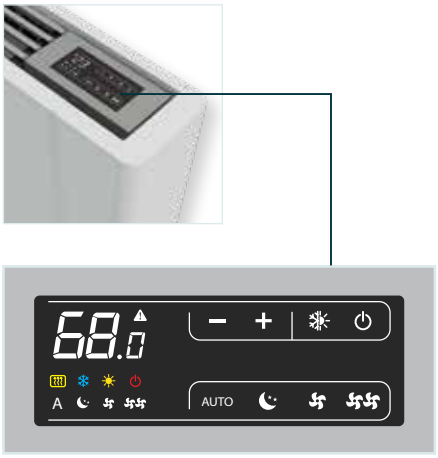
Ceiling Installation*

* Ceiling installation showing optional ducted outlet

iVector S2-
Product overview – control options

The standard model of the iVector S2 is equipped with an auto control which regulates the functions of the unit with little input required from the user. Fan speeds modulate according to demand and no manual setting is required.

Important: The unit has an on-board sensor to control the cooling function. However some room configurations mean the auto remote will offer more effective cooling performance. We therefore recommend that in installations where cooling is a main feature, the auto remote control is used rather than the standard model.



AUTO

Using the AUTO, NIGHT MODE, REDUCED MODE settings the Auto control option makes the regulation of the room temperature completely automatic (independent). The room temperature sensor sits in the lower part of the unit and guarantees frost-free function even if the unit is in standby mode.

The display is equipped with a memory function so no settings will be lost if the unit is switched off or there is a power cut.
With the + and – keys the room temperature can be set in 0.5 °C or °F increments.

Functions can be switched between heating and cooling using a simple press of a button.

This model allows standalone operation.
There is no master/slave function.

AUTO REMOTE

The Auto remote option offers the same functionality as the standard iVector S2 Auto version (Auto, night mode, reduced mode, maximum). The connection to the iVector S2 is made using a RS485 data cable using terminals +, A, B, -.

With this control option up to 30 iVector S2s can be managed using a single remote control.

This option is designed for commercial applications such as conference rooms, reception areas, businesses and hotel rooms where several fan convectors can be managed using a single remote control.

PLEASE NOTE!

It is **not possible** to control other units with the on-board Smart Touch controller.

AUTO REMOTE SETUP EXAMPLE

* a single remote controller can control up to 30 Auto Remote Vido S2 devices

Control options continued

0 – 10V BMS CONTROL

The iVector S2 can be factory or field fitted with a 0 – 10 V DC control board which allows the unit to be controlled centrally from a BMS system using a 0 – 10 V analogue input.

This model allows control using the building's own BMS system or the use of a suitable external thermostat. The fan speed is controlled using a 0 – 10 V external DC signal.

The programmable room thermostat 0 – 10 V allows control of the model 0-10 V BMS independently of the building management system (see accessories on page 14)

0-10 V DC INPUT

iVector S2 – A PERFECT SOLUTION FOR COMMERCIAL AND DOMESTIC USE

iVector S2-
Technical details (Imperial 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)*1	2,491 (1,467 - 3,106)	4,641 (2,559 - 7,234)	7,097 (3,924 - 9,588)	8,155 (4,505 - 11,260)	8,770 (4,811 - 12,659)
	Sensible cooling	btuh med (min - max)*1	1,740 (990 - 2,423)	3,549 (2,013 - 5,255)	5,152 (2,832 - 7,200)	6,278 (3,480 - 9,042)	6,756 (3,583 - 9,895)
	Flow rate	gpm med (min - max)*1	0.6 (na - 0.7)	1.0 (0.6 - 1.6)	1.6 (0.9 - 2.1)	1.8 (1.0 - 2.4)	1.9 (1.1 - 2.8)
	Pressure drop	ft of hd med (min - max)*1	1.5 (na - 4.0)	0.6 (0.6 - 2.7)	1.4 (0.9 - 5.7)	1.3 (0.8 - 6.0)	1.6 (4.6 - 7.1)
	Heating (176/167/68°F)	btuh med (min - max)*1	5,152 (2,764 - 7,541)	11,192 (6,312 - 16,071)	16,344 (9,145 - 22,588)	19,825 (11,226 - 28,730)	21,599 (11,397 - 32,552)
	Flow rate	gpm med (min - max)*1	0.6 (0.3 - 0.9)	1.3 (0.7 - 2.0)	1.9 (1.0 - 2.6)	2.2 (1.3 - 3.3)	2.5 (1.3 - 3,7)
	Pressure drop	ft of hd med (min - max)*1	0.4 (0.1 - .9)	0.5 (0.2 - 0.7)	1.3 (0.4 - 2.3)	1.5 (0.5 - 2.6)	1.2 (0.5 - 3.5)
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 min - max	39 - 185	39 - 185	39 - 185	39 - 185	39 - 185
	Pipe S/R connections*2	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*3	cfm med (min - max)	53.6 (28.8 - 85.9)	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)*1	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure*4	dB(A) med (min - max)*1	33 (24 - 41)	34 (25 - 42)	34 (26 - 44)	35 (26 - 46)	38 (28 - 47)

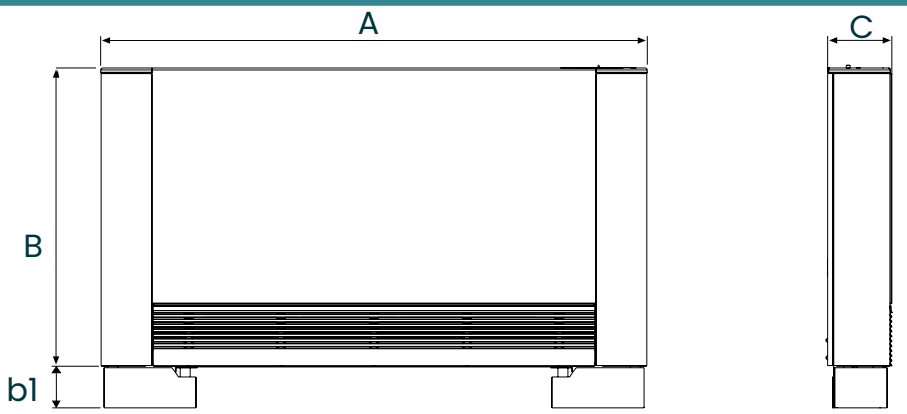
4-PIPE MODELS

			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)*1	2,081 (1,058 - 2,457)	3,856 (2,116 - 5,050)	5,186 (2,696 - 7,029)	6,108 (3,344 - 8,530)	7,438 (4,129 - 10,236)
	Sensible cooling	btuh med (min - max)*1	1,535 (819 - 1,911)	2,866 (1,570 - 3,924)	3,787 (2,082 - 5,255)	4,811 (2,764 - 6,722)	5,732 (3,174 - 7,883)
	Flow rate	gpm med (min - max)*1	0.5 (0.2 - 0.5)	0.8 (0.5 - 1.1)	1.1 (0.6 - 1.6)	1.3 (0.7 - 1.9)	1.6 (0.9 - 2.3)
	Pressure drop	ft of hd med (min - max)*1	1.1 (0.6 - 1.2)	0.8 (0.5 - 1.0)	1.4 (0.7 - 2.0)	1.1 (0.6 - 1.6)	0.9 (0.5 - 1.2)
	Heating (176/167/68°F)	btuh med (min - max)*1	2,116 (1,297 - 2,423)	4,231 (2,764 - 4,913)	5,937 (4,368 - 6,961)	8,667 (6,605 - 9,895)	9,315 (6,381 - 11,192)
	Flow rate	gpm med (min - max)*1	0.2 (0.1 - 0.3)	0.5 (0.3 - 0.6)	0.7 (0.5 - 0.8)	1.0 (0.7 - 1.1)	1.1 (0.7 - 1.3)
	Pressure drop	ft of hd med (min - max)*1	0.5 (0.4 - 0.5)	0.4 (0.4 - 0.8)	1.0 (0.9 - 1.3)	0.7 (0.6 - 0.9)	0.6 (0.5 - 1.4)
Hydraulic	Heat exchanger water volume	US gal (cooling/ heating	0.12/0.04	0.21/0.07	0.30/0.10	0.39/0.13	0.48/0.16
	Max. operating pressure	psi	145	145	145	145	145
	Operating temperatures	°F min - max	39 - 185	39 - 185	39 - 185	39 - 185	39 - 185
	Pipe S/R connections*2	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*3	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)*1	44 (33 - 51)	45 (35 - 53)	46 (36 - 54)	47 (36 - 55)	48 (37 - 57)
	Sound pressure*4	dB(A) med (min - max)*1	33 (24 - 41)	34 (25 - 42)	34 (26 - 44)	35 (26 - 46)	38 (28 - 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 semianechoic chamber in compliance with ISO 7779 (distance 3 m) - onsite conditions will result in different values

iVector S2- VS models FOR SURFACE MOUNTING
Product dimensions & weights

CASING DIMENSIONS



2-PIPE VERSIONS

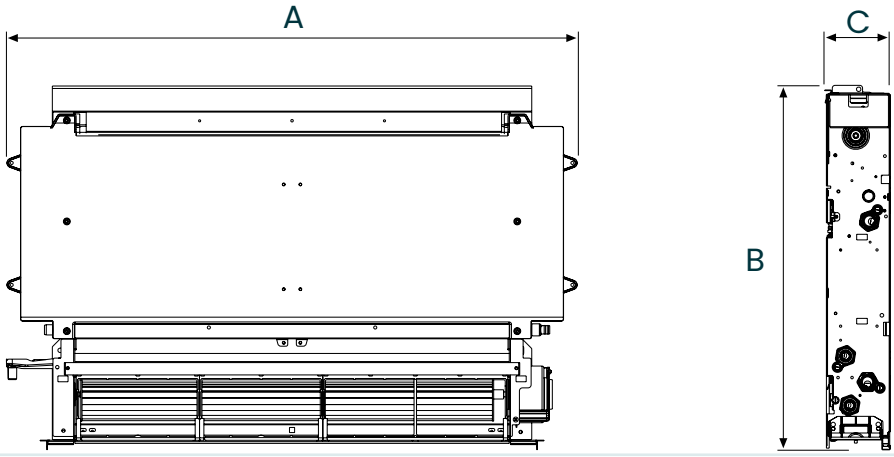
		Model				
		VS 7-2P	VS 9-2P	VS 11-2P	VS 13-2P	VS 15-2P
Dimensions						
A	mm (inches)	735 (29)	935 (37)	1135 (45)	1335 (53)	1535 (61)
B	mm (inches)	579 (23)	579 (23)	579 (23)	579 (23)	579 (23)
b1	mm (inches)	82 (3)	82 (3)	82 (3)	82 (3)	82 (3)
C	mm (inches)	131 (5)	131 (5)	131 (5)	131 (5)	131 (5)
Weight						
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						
A	mm (inches)	735 (29)	935 (37)	1135 (45)	1335 (53)	1535 (61)
B	mm (inches)	639 (25)	639 (25)	639 (25)	639 (25)	639 (25)
b1	mm (inches)	82 (3)	82 (3)	82 (3)	82 (3)	82 (3)
C	mm (inches)	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)

iVector S2 VSI models FOR BUILT-IN MOUNTING, COMES WITH REMOTE WALL MOUNT AUTO CONTROLLER
Product dimensions & weights

CASING DIMENSIONS



2-PIPE VERSIONS

		Model				
		VSI 7-2P	VSI 9-2P	VSI 11-2P	VSI 13-2P	VSI 15-2P
Dimensions						
A	mm (inches)	525 (21)	725 (29)	925 (37)	1125 (45)	1335 (53)
B	mm (inches)	576 (23)	576 (23)	576 (23)	576 (23)	576 (23)
C	mm (inches)	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				
		VSI 7-4P	VSI 9-4P	VSI 11-4P	VSI 13-4P	VSI 15-4P
Dimensions						
A	mm (inches)	525 (21)	725 (29)	925 (37)	1125 (45)	1335 (53)
B	mm (inches)	579 (23)	579 (23)	579 (23)	579 (23)	579 (23)
C	mm (inches)	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)

iVector S2-
VS Models Outputs

2-PIPE VERSIONS – FOR SURFACE MOUNTING , COMES WITH ON-BOARD AUTO CONTROLLER								
Unit/Model	Overall height	Overall depth	Overall length	Fan speed	Heat output (btuh)	Cooling output (btuh)		Product code
					176/167/68°F	45/54/81°F		
	Dimensions – Nominal Inches					Total	Sensible	
VS 7-2P	23	5-¼	30	Max.	7,541	3,106	2,423	VS 7K
				Med.	5,512	2,491	1,740	
				Min.	2,764	1,467	990	
VS 9-2P	23	5-¼	37	Max.	16,071	7,234	5,255	VS 9K
				Med.	11,192	4,641	3,549	
				Min.	6,312	2,559	2,013	
VS 11-2P	23	5-¼	45	Max.	22,588	9,588	7,200	VS 11K
				Med.	16,344	7,097	5,152	
				Min.	9,145	3,924	2,832	
VS 13-2P	23	5-¼	53	Max.	28,730	11,260	9,042	VS 13K
				Med.	19,825	8,155	6,278	
				Min.	11,226	4,505	3,480	
VS 15-2P	23	5-¼	61	Max.	32,552	12,659	9,895	VS 15K
				Med.	21,599	8,770	6,756	
				Min.	11,397	4,811	3,583	

The standard VS 2-pipe surface mount models are supplied from the factory with an on-board "Auto" controller mounted on the fan convector. Also included is a factory- fitted manual 2-way valve set with ¾" Eurocone connections (connections on left side is standard). The casings are finished in white (RAL 9003) and it is possible to powder coat other colors. Accessories and control variations are available. Control variations can be factory installed or via field swap out. Accessories include an "Auto Remote" version with separate wall mounted controller (black or white coloured), useful for ceiling surface mount applications. Also, a 0-10 V control board for use with BMS systems or compatible thermostats. In addition a 24V valve actuator for the factory-fitted valve set is available.

4-PIPE VERSIONS – FOR SURFACE MOUNTING , COMES WITH ON-BOARD AUTO CONTROLLER								
Unit/Model	Overall height	Overall depth	Overall length	Fan speed	Heat output (btuh)	Cooling output (btuh)		Product code
					176/167/68°F	45/54/81°F		
	Dimensions – Nominal Inches					Total	Sensible	
VS 7-4P	23	5-¼	30	Max.	2,423	2,457	1,911	VS 7K 4P
				Med.	2,116	2,081	1,535	
				Min.	1,297	1,058	785	
VS 9-4P	23	5-¼	37	Max.	4,913	5,050	3,924	VS 9K 4P
				Med.	4,231	3,856	2,866	
				Min.	2,764	2,116	1,570	
VS 11-4P	23	5-¼	45	Max.	6,961	7,029	5,255	VS 11K 4P
				Med.	5,937	5,186	3,787	
				Min.	4,368	2,696	2,081	
VS 13-4P	23	5-¼	53	Max.	9,895	8,530	6,722	VS 13K 4P
				Med.	8,667	6,108	4,811	
				Min.	6,005	3,344	2,764	
VS 15-4P	23	5-¼	61	Max.	11,192	10,236	7,882	VS 15K 4P
				Med.	9,315	7,438	5,732	
				Min.	6,381	4,129	3,173	

All SV 4-pipe models are special order items. These models are supplied from the factory with an on-board "Auto" controller mounted on the fan convector. Also included is a factory- fitted manual 2-way valve set with ¾" Eurocone connections (connections on left side is standard). The casings are finished in white (RAL 9003) and it is possible to powder coat other colours. Accessories and control variations are available. Control variations can be factory installed or via field swap out. Accessories include an "Auto Remote" version with separate wall mounted controller (black or white coloured), useful for ceiling surface mount applications. Also, a 0-10 V control board for use with BMS systems or compatible thermostats. In addition a 24V valve actuator for the factory-fitted valve set is available.

iVector S2-
VSI Models Outputs

2-PIPE VERSIONS – FOR BUILT-IN MOUNTING, COMES WITH REMOTE WALL MOUNT AUTO CONTROLLER

Unit/Model	Overall height	Overall depth	Overall length	Fan speed	Heat output (btuh)	Cooling output (btuh)		Product code
	Dimensions – Nominal Inches				176/167/68°F	45/54/81°F		
						Total	Sensible	
VSI 7-2P	23	5-¼	30	Max.	7,541	3,106	2,423	VSI 7FV VSI 7DC VSI 7DG VSI 7AG
				Med.	5,512	2,491	1,740	
	Front Cover 30x30			Min.	2,764	1,467	990	
VSI 9-2P	23	5-¼	37	Max.	16,071	7,234	5,255	VSI 9FV VSI 9DC VSI9DG VSI9AG
				Med.	11,192	4,641	3,549	
	Front Cover 30x38			Min.	6,312	2,559	2,013	
VSI 11-2P	23	5-¼	45	Max.	22,588	9,588	7,200	VSI 11FV VSI 11DC VSI 11DG VSI 11AG
				Med.	16,344	7,097	5,152	
	Front Cover 30x46			Min.	9,145	3,924	2,832	
VSI 13-2P	23	5-¼	53	Max.	28,730	11,260	9,042	VSI 13FV VSI 13DC VSI 13DG VSI 13AG
				Med.	19,825	8,155	6,278	
	Front Cover 30x53			Min.	11,226	4,505	3,480	
VSI 15-2P	23	5-¼	61	Max.	32,552	12,659	9,895	VSI 15FV VSI 15DC VSI 15DG VSI 15AG
				Med.	21,599	8,770	6,756	
	Front Cover 30x62			Min.	11,397	4,811	3,583	

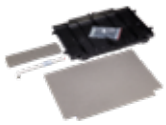
All VSI 2-pipe models are sold as a kit, although components can be purchased separately. Each kit includes the basic fan convector unit, a factory-fitted control board, Smart Touch wall mounted user interface/controller along with a set of factory mounted manual control valves. All FV kits include a free-vented front panel and metal casing. DC kits include a ducted ceiling cover, metal casing, variable length duct and straight outlet grille. DG kits include a variable length duct, straight outlet grille, inlet adapter and straight inlet grille. AG kits include a 90o outlet adapter, curved outlet grille, inlet adapter and curved inlet grille. Valve insulation kits and 24V valve heads are available as an option for all kits.

4-PIPE VERSIONS – FOR BUILT-IN MOUNTING, COMES WITH REMOTE WALL MOUNT AUTO CONTROLLER

Unit/Model	Overall height	Overall depth	Overall length	Fan speed	Heat output (btuh)	Cooling output (btuh)		Product code
	Dimensions – Nominal Inches				176/167/68°F	45/54/81°F		
						Total	Sensible	
VSI 7-4P	23	5-¼	30	Max.	2,423	2,457	1,911	VSI 7K 4P
				Med.	2,116	2,081	1,535	
	Front Cover 30x30			Min.	1,297	1,058	785	
VSI 9-4P	23	5-¼	37	Max.	4,913	5,050	3,924	VSI 9K 4P
				Med.	4,231	3,856	2,866	
	Front Cover 30x38			Min.	2,764	2,116	1,570	
VSI 11-4P	23	5-¼	45	Max.	6,961	7,029	5,255	VSI 11K 4P
				Med.	5,937	5,186	3,787	
	Front Cover 30x46			Min.	4,368	2,696	2,081	
VSI 13-4P	23	5-¼	53	Max.	9,895	8,530	6,722	VSI 13K 4P
				Med.	8,667	6,108	4,811	
	Front Cover 30x53			Min.	6,005	3,344	2,764	
VSI 15-4P	23	5-¼	61	Max.	11,192	10,236	7,882	VSI 15K 4P
				Med.	9,315	7,438	5,732	
	Front Cover 30x62			Min.	6,381	4,129	3,173	

All VSI 4-pipe models are special order items. These models are supplied as a kit. The kit includes the basic VSI unit along with a factory-fitted control board and an "Auto Remote" wall mounted controller (black or white coloured available). The kit also includes a fitted metal mounting cabinet (installed on-site) as well as free vented metal cover panel in white (RAL 9003) with both inlet and outlet vents built into the cover. The free vented cover panel can be installed both vertically or horizontally to match the installation. To support a ceiling mounted installation with ducted inlet or outlet (for example with a soffit outlet vent), a variety of ducts and grilles are available. A cover panel without an outlet vent for these applications is also available. Also, a 0-10 V control board for use with BMS systems or compatible thermostats. In addition a 24V valve actuator for the factory-fitted valve set is available.

iVector S2-
Series Accessories

ACCESSORIES			
Visual	Description	Model/type	Product code
	Wall Controller, Not connected Wall-mounted remote control.	Black White	S2_AWMCB S2_AWMCW
	Wall fixing pipe covers/feet Cover up supply and return pipes as they enter the unit. Designed to attach to the wall.		S2_APCF
	Floor fixing pipe covers/feet Cover up supply and return pipes as they enter the unit. Designed to attach to the floor.		S2_AFAF
	Condensate collector tray Required for horizontally-mounted units in cooling applications. For 2P and 4P versions.	VS 7 VS 9 VS 11 VS 13 VS 15	S2_ACDP_VS7 S2_ACDP_VS9 S2_ACDP_VS11 S2_ACDP_VS13 S2_ACDP_VS15
	Rear metal cover panel white for 2P versions Cover panel for use when unit is installed in front of windows.	VS 7-2P VS 9-2P VS 11-2P VS 13-2P VS 15-2P	S2_PRCP_VS7 S2_PRCP_VS9 S2_PRCP_VS11 S2_PRCP_VS13 S2_PRCP_VS15
	Rear metal cover panel white for 4P versions Cover panel for use when unit is installed in front of windows.	VS 7-4P VS 9-4P VS 11-4P VS 13-4P VS 15-4P	S2_PRCP_VS7_4P S2_PRCP_VS9_4P S2_PRCP_VS11_4P S2_PRCP_VS13_4P S2_PRCP_VS15_4P
	Air intake adapter Used with built-in versions when the unit will sit within a false ceiling cavity. Adapter facilitates inlet grille attachment.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_AIGA_VSI7 S2_AIGA_VSI9 S2_AIGA_VSI11 S2_AIGA_VSI13 S2_AIGA_VSI15
	Variable length air flow duct Used with built-in version where outlet needs to be away from unit. Min length 302 mm, max length 590 mm (12 – 23 inches nominal).	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_ATPD_VSI7 S2_ATPD_VSI9 S2_ATPD_VSI11 S2_ATPD_VSI13 S2_ATPD_VSI15
	90° air duct Used with built-in versions where unit will sit in false ceiling cavity and outlet grille will be exposed. Adapter facilitates inlet grille attachment.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_A90OA_VSI7 S2_A90OA_VSI9 S2_A90OA_VSI11 S2_A90OA_VSI13 S2_A90OA_VSI15
	Air outlet grille straight Used with built-in versions. Grille vanes are straight.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_AOGS_VSI7 S2_AOGS_VSI7 S2_AOGS_VSI7 S2_AOGS_VSI7 S2_AOGS_VSI7
	Air inlet grille straight Used with built-in versions. Grille vanes are straight.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_AIGS_VSI7 S2_AIGS_VSI7 S2_AIGS_VSI7 S2_AIGS_VSI7 S2_AIGS_VSI7

iVector S2-Series Accessories

ACCESSORIES			
Visual	Description	Model/type	Product code
	Air outlet grille curved Used with built-in versions. Grille vanes are curved to direct airflow away from room occupants.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_AOGC_VSI7 S2_AOGC_VSI9 S2_AOGC_VSI11 S2_AOGC_VSI13 S2_AOGC_VSI15
	Air inlet grille curved Used with built-in versions. Grille vanes are curved to direct airflow away from room occupants.	VSI 7 VSI 9 VSI 11 VSI 13 VSI 15	S2_AIGC_VSI7 S2_AIGC_VSI9 S2_AIGC_VSI11 S2_AIGC_VSI13 S2_AIGC_VSI15
	Metal casing for built-in for 2P versions Option for built-in units. Fan convector mounts directly into metal casing for added protection or if required by local building code.	VSI 7-2P VSI 9-2P VSI 11-2P VSI 13-2P VSI 15-2P	S2_AMC_VSI7 S2_AMC_VSI9 S2_AMC_VSI11 S2_AMC_VSI13 S2_AMC_VSI15
	Metal casing for built-in for 4P versions Option for built-in units. Fan convector mounts directly into metal casing for added protection.	VSI 7-4P VSI 9-4P VSI 11-4P VSI 13-4P VSI 15-4P	S2_AMC_VSI7_4P S2_AMC_VSI9_4P S2_AMC_VSI11_4P S2_AMC_VSI13_4P S2_AMC_VSI15_4P
	Free vented vertical or horizontal casing cover (white) for 2P versions Casing cover with built-in air intake and outlet grille. For use with non-ducted installations using the standard metal casing.	VSI 7-2P VSI 9-2P VSI 11-2P VSI 13-2P VSI 15-2P	S2_AFVC_VSI7 S2_AFVC_VSI7 S2_AFVC_VSI7 S2_AFVC_VSI7 S2_AFVC_VSI7
	Free vented vertical or horizontal casing cover (white) for 4P versions Casing cover with built-in air intake and outlet grille. For use with non-ducted installations using the standard metal casing.	VSI 7-4P VSI 9-4P VSI 11-4P VSI 13-4P VSI 15-4P	S2_AFVC_VSI7_4P S2_AFVC_VSI7_4P S2_AFVC_VSI7_4P S2_AFVC_VSI7_4P S2_AFVC_VSI7_4P
	Ceiling casing cover for 2P versions Ceiling casing cover with air intake grille and ducted outlet. For use with standard metal casing.	VSI 7-2P VSI 9-2P VSI 11-2P VSI 13-2P VSI 15-2P	S2_ADCC_VSI7 S2_ADCC_VSI9 S2_ADCC_VSI11 S2_ADCC_VSI13 S2_ADCC_VSI15
	Ceiling casing cover for 4P versions Ceiling casing cover with air intake grille and ducted outlet. For use with standard metal casing.	VSI 7-4P VSI 9-4P VSI 11-4P VSI 13-4P VSI 15-4P	S2_ADCC_VSI7_4P S2_ADCC_VSI9_4P S2_ADCC_VSI11_4P S2_ADCC_VSI13_4P S2_ADCC_VSI15_4P
	Valve Spacer 81 mm spacer for use with return valve when pipe connection is from the floor.		S2_AEKEP

Fan Convector Warranty Terms and Conditions

iVector & Whispa Warranty

1. Each iVector & Whispa Fan Convector is guaranteed for 1 year from installation date against any defects caused by faulty materials or manufacture. The defective unit will be replaced similar or mechanically comparable convector.
2. Each iVector & Whispa electronic controller is guaranteed for 2 years from installation date against defects caused by faulty materials or manufacture. The defective electronic controller will be replaced.
3. Each iVector & Whispa fan motor is guaranteed for 3 years from installation date against defects caused by faulty materials or manufacture. The defective fan motor will be replaced
4. Each iVector & Whispa hot or chilled water coil is guaranteed for 5 years from installation date against defects caused by faulty materials or manufacture. The defective coils will be replaced
5. The iVector & Whispa Warranty is subject to the condition that a heating contractor whose principal occupation is the sale and installation of heating/cooling equipment must have installed the convector.
6. The Warranty is valid for iVector mounted in a forced hot water installation:

- in a closed system with an expansion tank;
- powered by a boiler/chiller, the "low" side of a heat exchanger or heat pump;
- made from steel / copper or plastic pipes with a oxygen diffusion barrier;
- equipped with automatic air venting system;
- used for heating residential, office or institutional buildings, service stations or other buildings that are not exposed to permanent or temporary moistness of the radiator surface.

7. The Warranty is recognized when:

- there is evidence of purchase, such as the invoice;
- the convectors have been mounted in a closed loop, forced hot water heating system;
- adhering to the requirements of the installation manual.

8. Maximum operating pressure in central heating installation for iVector fan convectors not exceed 147 psi (11.7 bars) and a maximum operating temperature of 190° F.
9. The Warranty does not cover convectors mounted:

- in swimming pool areas, car washes, laundries, slaughterhouses or rooms with corrosive substances in the air;
- in central heating installations connected to municipal water supply system without protective valves, fittings, backflow preventors, etc.;
- in central heating installations where water is removed for periods longer than advised in the installation guide;
- in steam installations;
- in central heating installations where the water quality rating level has been higher than advised.

10. The Warranty doesn't cover damages to the convector or its parts due to improper handling, storage, transport or misuse. It is recommended to remove the packaging only after construction is completed.
11. The convectors require periodical cleaning and it is recommended to use only soft and gentle fabrics that can be slightly moistened. It is not advised to use aggressive or corrosive cleaners (e.g. acidic solvents or agents with chlorine). The washable air filters need to be cleaned when required
12. It is forbidden to remove the water from the entire installation or its part and to leave it in this condition. It also refers to new installations with the tightness test. If there is a need to remove the water, e.g. due to renovation or maintenance works, the water must be removed only from the given part. After accomplishing all works the installation must immediately be filled with water.
13. The Warranty is granted provided the convector has not been repaired or modified without QHT's approval.
14. Reporting faults or defects within the warranty period needs to be followed by requesting from the distributor a special claim form including the origin and details of damage. The distributor will accept the claim form and forwards it to QHT via registered letter, fax or email within 48 hours. The invoice or its copy shall be attached to the form. In specific cases QHT may request a photo documentation of the product claim.

For prompt warranty service, notify the installer, who, in turn, will notify the distributor from whom he purchased the boiler. If this does not result in corrective action, contact Purmo through QHT with details in support of the warranty claim. All claims must be processed through proper trade channels. Contact with Purmo directly is not recommended for rapid claim settlement.

Radiator Warranty Terms and Conditions

Ecostyle Warranty

1. Each Ecostyle Panel Radiator is guaranteed for 10 years from installation date against defects caused by faulty materials or manufacture. The defective unit will be replaced with same or comparable panel radiator.
2. Each Ecostyle Towel Bar Radiator is guaranteed for 5 years from installation date against defects caused by faulty materials or manufacture. The defective unit will be replaced with same or comparable radiator.
3. The Warranty is valid for radiators mounted in a forced hot water installation:

- in a closed loop system with an expansion tank;
- powered by a boiler, hi/lo heat exchanger or heat pump;
- made from steel / copper or plastic pipes with a oxygen diffusion barrier;
- equipped with automatic air venting system;
- used for heating residential, office or institutional buildings, service stations or other buildings that are not exposed to permanent or prolonged moistness of the radiator surface.

4. The Warranty is valid when:

- there is evidence of the radiator purchase, invoice, etc.;
- the requirements of the installation manual are followed.

5. Maximum operating pressure in a central heating installation for Ecostyle Panel Radiators and Ecostyle Towel Bar Radiators may not exceed 147 psi (11.7 bars) and a maximum operating temperature of 190° F.
6. The Warranty does not cover radiators mounted:

- in swimming pool rooms, car washes, laundries, slaughterhouses or rooms with corrosive substances in the air;
- in central heat installations connected to municipal water supply without protective valves, fittings, backflow preventors, etc.;
- in central heating installations where water is removed for periods longer than advised in the installation guide;
- in steam installations;
- in central heating installations where the water PH is higher than advised.

7. The Warranty doesn't cover damages to the radiator or its parts (brackets, etc) due to improper handling, storage, transport or misuse. The radiators should be mounted within their original packaging. This packaging must be left on the radiator even if the heating system is activated while finishing construction or for pressurizing purposes. It is recommended to only remove the packaging after construction is completed.
8. The radiators require periodical cleaning and it is recommended to use only soft and gentle fabrics that can be slightly moistened. It is not advised to use aggressive or corrosive cleaners (e.g. acidic solvents or agents with chlorine). Claims for damage of varnished surfaces due to improper handling or maintenance will not be granted.
9. It is not advisable to remove the water from the entire installation or its part and to leave it in this condition. It also refers to new installations with the tightness test. If there is a need to remove the water, e.g. due to renovation or maintenance works, the water must be removed only from the zone. After finishing the work, the units must immediately be refilled with water.
10. The Warranty is granted provided the radiator has not been repaired or modified without QHT's approval.
11. Reporting defects within the warranty period needs to be processed through the distributor using a special claim form including the origin and details of the damage. The distributor will accept the claim form and forward it to QHT via letter, fax or email within 48 hours. The invoice or its copy needs to be attached to the form. In specific cases QHT may request a photo documentation of the product claim.
12. For prompt warranty service, notify the installer, who, in turn, will notify the distributor from whom he purchased the boiler. If this does not result in corrective action, contact QHT with details in support of the warranty claim. All claims must be processed through proper trade channels. Contact with Purmo directly is not recommended for rapid claim settlement.

Water used in heating systems that include Purmo radiators should not exceed these values:

1. Total chloride and sulphate- shall NOT exceed 50 mg/l = 50 ppm
2. Total dissolved oxygen- shall NOT exceed 0.1 mg/l = 0.1 ppm
3. Water pH should be in the range of 6.3 -7.7
4. Water hardness should NOT exceed 4.0 mval/l = 200.17 ppm

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QHT supplies the most durable, fuel efficient and environmentally sustainable boilers, radiators and convectors available. From its Portsmouth, NH warehouse facility, QHT assembles and distributes an extensive range of steel panel radiators, towel bars, boilers and fan convectors. In most cases, almost all products shown in this guide book can be shipped next day to anywhere in the USA and Canada.

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Customer service and support are the key to QHT's business. The staff at QHT will take care of your needs. In addition to providing specialized packaging and shipping services, QHT's product support extends to giving on-site training seminars for fan convectors, radiators, boilers, burners and controls.

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