

CEILING VOID FAN COIL UNITS

W285HD



Quality and efficiency without compromise

AIR IN MOTION

WATERSIDE FAN COIL UNITS

This range of Waterside Fan Coil Units offers the specifier a wide variety of models including fan size and control unit specification.

The unique slide-in coil section and drain tray assembly removes the common problem of on-site damage to the small diameter copper coil headers when connecting control valves or pipework.

A special insulated drain tray is extended to encompass the four port valves on all models. Standard units are fitted with a purpose designed control housing with hinged cover, positioned on the side of the unit for easy access. The housing comes complete with a 240 volt connection block for speedy on-site connection, with an on/off switch and separate manual 3-speed fan selector switch.

A 24 step transformer is provided, together with a 24 volt output to supply a temperature controller.

All units can be fitted with a wide selection of fan coil controllers currently manufactured and can be discreet or suitable for direct digital control.

Controllers may be room or unit mounted to operate 2, 3 or 4 port valves and can be on/off or modulating.

The controllers can function either from remote sensors or occupancy located sensors.

W235



W175



W285HD



W285A



W335Q/HD



WATERSIDE FAN COIL UNITS

Moducel Waterside Fan Coil Units (FCUs) are available in four cabinet depths (175 mm, 235 mm, 285 mm and 335 mm) with air volumes ranging up to 800 litres per second. Total cooling capacities up to 13.8 kW with total LPHW heating capacities up to 14.3 kW. Specific fan power of our fan coils is typically between 0.5 and 0.8 watts per litres per second with units operating at their duty point against 30 Pa resistance.

The FCUs are designed to be mounted in concealed ceiling voids to cool, heat and filter the conditioned space offering a combination of operating economy and optimum flexibility.

Standard units are fully factory assembled and tested. Component control and valve combinations can be fitted to meet the required specification.

Diffusers and Grilles

Our extensive range of diffusers includes linear slot, swirl, jet, eyelash, circular, perforated face, louvre face and nozzle diffusers. Additionally, return air, supply, transfer, computer floor and many other grilles are available in wide range of sizes. The pictures below show a small selection.

Standard Components

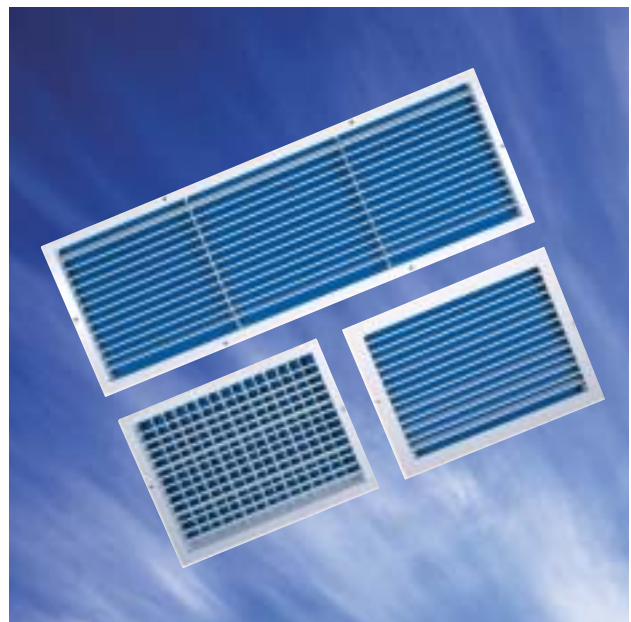
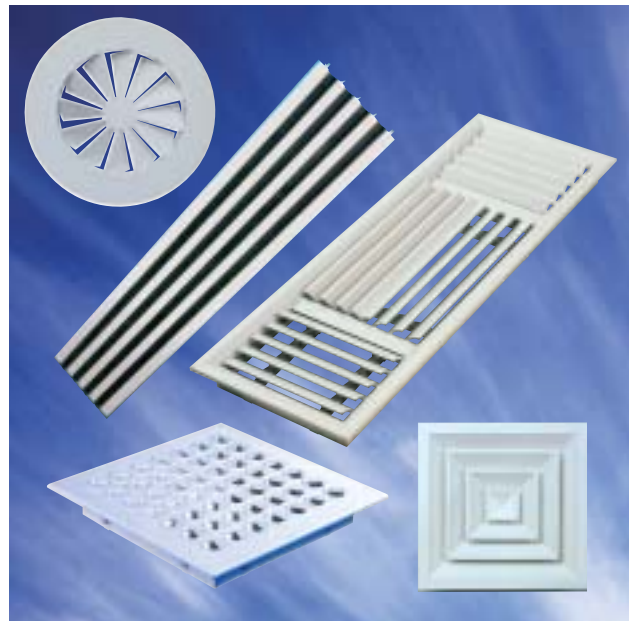
- Multiple speed fans (24-speed).
- Control box on/off switch (easily accessible).
- Control box 3-speed fan switch (set for your design volumes).
- Flying lead for power connection reduces site wiring.
- Copper tube with aluminium fins heat exchanger.
- Cleanable EU2 filters.
- Class '0' thermal/acoustic insulation.
- Duct spigots can be easily interchanged with blanking plates.
- Easy fix drop rod slots.

Standard Options

- Controls (Siemens / Trend / Free Issue).
- Eaton-Williams electronic controls package.
- Valve packs.
- Extended drain trays.
- Top access (e.g. underfloor).
- Adjustable feet.
- Condensate pump.
- Binder points.
- Flying lead CW plug.

Further Options on Request

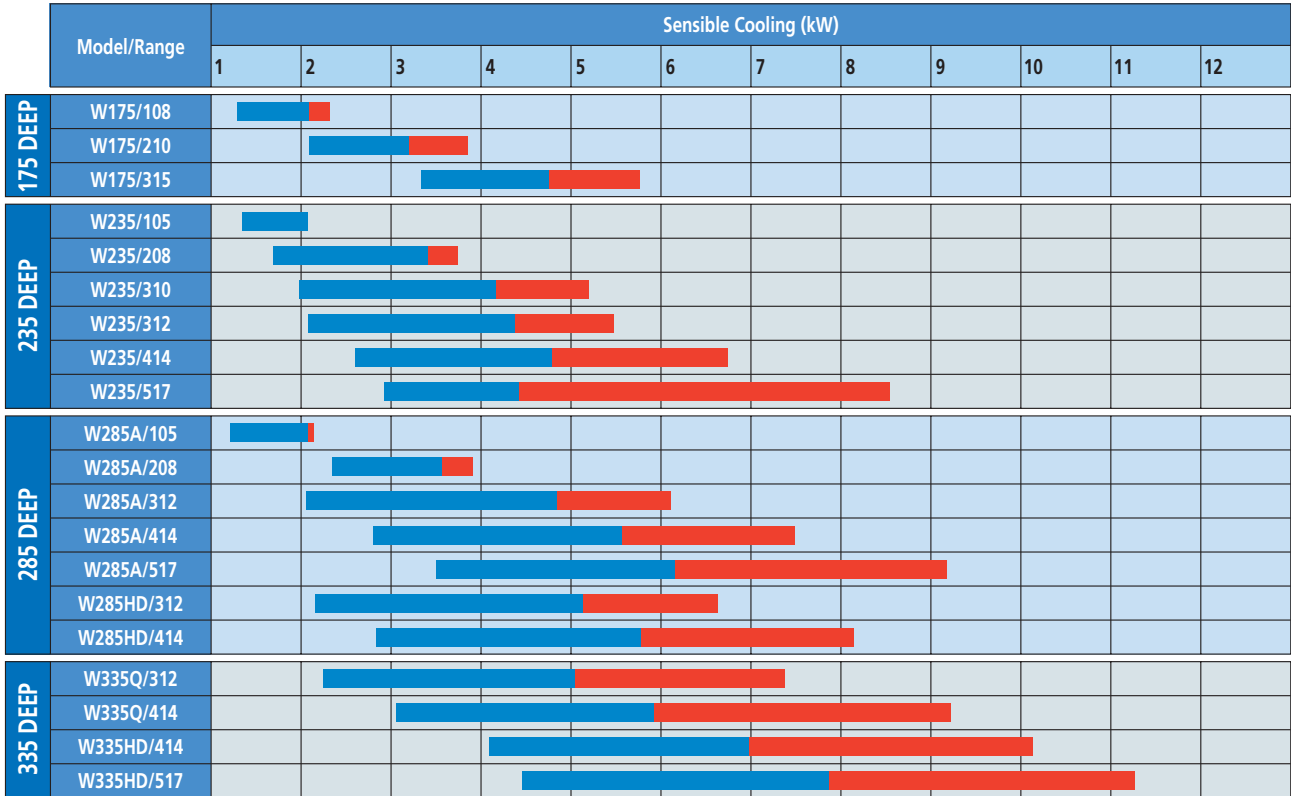
- EC fans.
- Painted casework.
- Rectangular discharge spigots.
- Grilles and diffusers.
- 1.2 mm casing.




PERFORMANCE SUMMARY

Cooling Performance

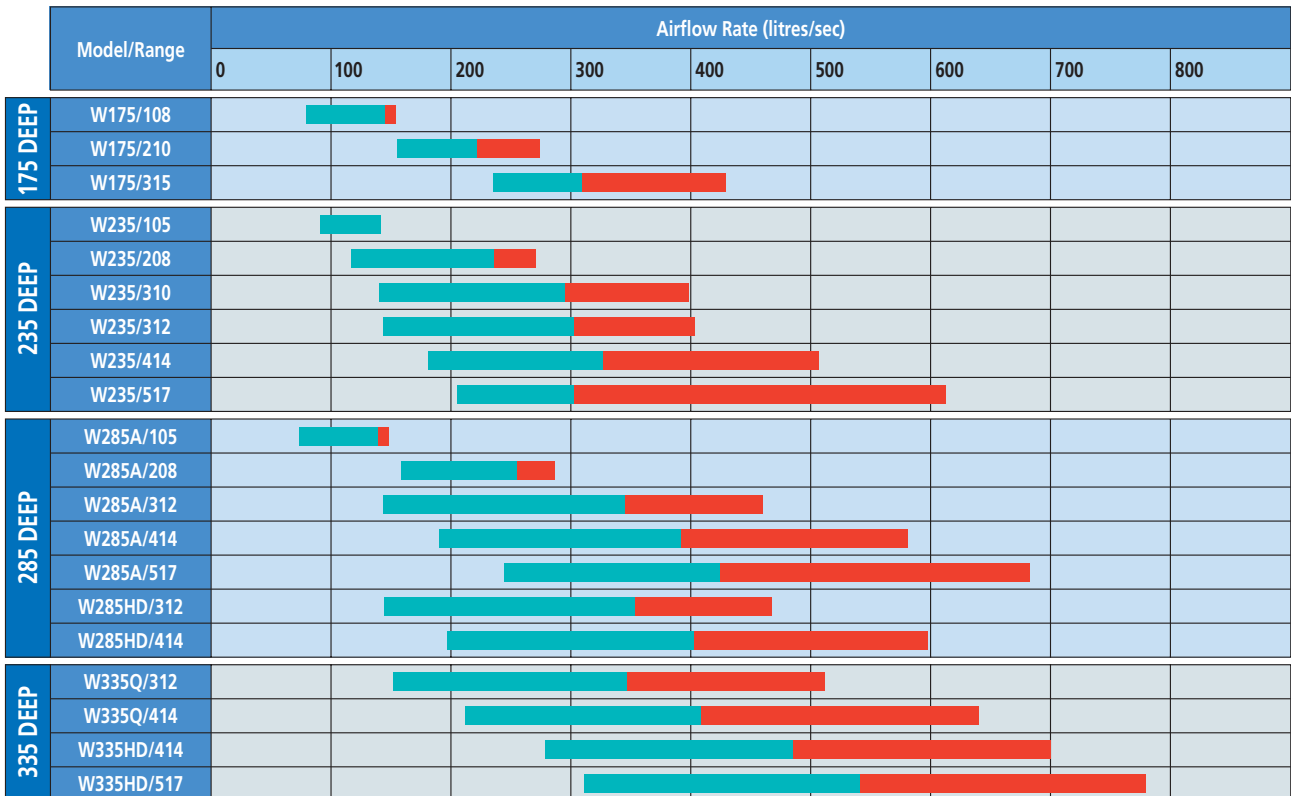
Air on/off at 23°C/11°C, water on/off at 5.5°C/11°C, external static pressure at 30 Pa




 All selections in this region will be greater than NR35.

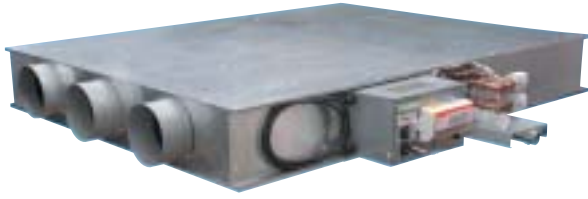
Airflow Rate Summary

Air on/off at 23°C/11°C, water on/off at 5.5°C/11°C, external static pressure at 30 Pa



 All selections in this region will be greater than NR35.

W175 FAN COIL UNITS



This ultra slim 175 mm deep unit is available in three widths, with volumes from 89 to 421 litres/sec and total cooling duties up to 7.15 kW with heating outputs up to 9.75 kW, based on 30 Pa external resistance.

Performance

Model/Range	Speed Range	Noise Rating † (NR)	Airflow Volume ‡ (litres/sec)	Sensible Cooling (kW)	Total Cooling (kW)	Heating (kW)	Full Load Current (Amps)
W175/108	Low	27	89	1.29	1.57	3.03	0.66
W175/108	Medium	32	119	1.73	2.12	3.63	0.66
W175/108	High	37	158	2.29	2.80	4.33	0.66
W175/210	Low	31	158	2.29	2.80	4.60	1.32
W175/210	Medium	36	222	3.20	3.93	5.68	1.32
W175/210	High	39	278	3.88	4.75	6.48	1.32
W175/315	Low	31	234	3.39	4.15	6.85	1.98
W175/315	Medium	36	331	4.79	5.88	8.45	1.98
W175/315	High	40	421	5.84	7.15	9.75	1.98

* Cooling duties are based on Chilled Water (CW) on/off at 5.5°C/11°C, with air on at 23°C/16°C dry/wet bulb.

Heating duties are based on Low Pressure Hot Water (LPHW) on/off at 82°C/71°C, with air on at 20°C.

For other water temperatures, apply 'Water Temperature Correction Factors' from the table below.

Dimensions

Model/Range		W175/108	W175/210	W175/315
Length (Including Inlet Plenum)	mm	1400	1400	1400
Nominal Width	mm	900	1050	1550
Depth	mm	175	175	175
Number of Fans		1	2	3
Maximum Number of 147 mm OD Spigots		5	5	7
Unit Weight	kg	45	51	71

Water Temperature Correction Factors

Low Pressure Hot Water		Chilled Water	
Temperature °C	Factor	Temperature °C	Factor
82/71	1.00	5.5/11	1.00
70/60	0.79	6/12	0.87
60/50	0.59	7/12	0.88
—	—	10/15	0.60

Notes:

* All cooling and heating duties shown are coil duties only and do not allow for any fan motor or duct gains.

† All NR figures have been calculated making the following assumptions:

(a) Room absorption of 8 dB.

(b) Ceiling loss of: dB 4 7 9 11 14 16
In the frequency of: Hz 125 250 500 1k 2k 4k

(c) A one metre length of non-regenerative, unlined PVC flexible ducting being fitted in each supply duct, and a maximum air velocity of 3 m/sec at each outlet spigot.

(d) Reverberant field.

‡ All airflow volumes shown are based upon 30 Pa external static resistance.

Chilled water values based on total cooling.

W235 FAN COIL UNITS



These 235 mm deep units offer a selection of six widths, with volumes from 92 to 615 litres/sec and total cooling duties up to 10.42 kW with heating outputs up to 11.12 kW, based on 30 Pa external resistance.

Performance

Model/Range	Speed Range	Noise Rating † (NR)	Airflow Volume ‡ (litres/sec)	Sensible Cooling (kW)	Total Cooling (kW)	Heating (kW)	Full Load Current (Amps)
W235/105	Low	25	92	1.35	1.65	2.17	0.52
W235/105	Medium	31	115	1.67	2.05	2.50	0.52
W235/105	High	34	141	2.04	2.50	2.80	0.52
W235/208	Low	25	113	1.63	2.00	2.95	1.04
W235/208	Medium	30	185	2.67	3.28	3.93	1.04
W235/208	High	39	271	3.75	4.60	4.90	1.04
W235/310	Low	27	138	2.00	2.45	3.53	1.56
W235/310	Medium	33	262	3.79	4.65	5.15	1.56
W235/310	High	42	397	5.14	6.30	6.50	1.56
W235/312	Low	27	145	2.10	2.58	3.93	1.56
W235/312	Medium	33	269	3.90	4.78	5.65	1.56
W235/312	High	42	404	5.49	6.73	7.13	1.56
W235/414	Low	30	180	2.61	3.20	4.75	2.08
W235/414	Medium	36	337	4.88	5.98	6.85	2.08
W235/414	High	44	509	6.77	8.30	8.53	2.08
W235/517	Low	31	204	2.96	3.63	5.83	2.60
W235/517	Medium	38	401	5.79	7.10	8.70	2.60
W235/517	High	45	615	8.51	10.42	11.12	2.60

* Cooling duties are based on Chilled Water (CW) on/off at 5.5°C/11°C, with air on at 23°C/16°C dry/wet bulb.
 Heating duties are based on Low Pressure Hot Water (LPHW) on/off at 82°C/71°C, with air on at 20°C.
 For other water temperatures, apply 'Water Temperature Correction Factors' from the table below.

Dimensions

Model/Range		W235/105	W235/208	W235/310	W235/312	W235/414	W235/517
Length (Excluding Plenum)	mm	800	800	800	800	800	800
Optional Inlet Plenum	mm	450	450	450	450	450	450
Nominal Width	mm	600	900	1050	1250	1450	1750
Depth	mm	235	235	235	235	235	235
Number of Fans		1	2	3	3	4	5
Maximum Number of 197 mm OD Spigots		4	5	5	6	6	7
Unit Weight	kg	35	40	50	55	70	90

Water Temperature Correction Factors

Low Pressure Hot Water		Chilled Water	
Temperature °C	Factor	Temperature °C	Factor
82/71	1.00	5.5/11	1.00
70/60	0.79	6/12	0.87
60/50	0.59	7/12	0.88
—	—	10/15	0.60

Notes:

* All cooling and heating duties shown are coil duties only and do not allow for any fan motor or duct gains.

† All NR figures have been calculated making the following assumptions:

(a) Room absorption of 8 dB.

(b) Ceiling loss of: dB 4 7 9 11 14 16
 In the frequency of: Hz 125 250 500 1k 2k 4k

(c) A one metre length of non-regenerative, unlined PVC flexible ducting being fitted in each supply duct, and a maximum air velocity of 3 m/sec at each outlet spigot.

(d) Reverberant field.

‡ All airflow volumes shown are based upon 30 Pa external static resistance.
 Chilled water values based on total cooling.

W285A & W285HD FAN COIL UNITS



Model W285A shown.

This 285 mm deep range has a choice of five widths, with volumes from 83 to 682 litres/sec and total cooling duties up to 11.22 kW with heating outputs up to 11.8 kW, based on 30 Pa external resistance.

The W285A is a compact unit excluding plenum. The W285HD is a high duty unit including acoustic plenum.

Performance

Model/Range	Speed Range	Noise Rating † (NR)	Airflow Volume ‡ (litres/sec)	Sensible Cooling (kW)	Total Cooling (kW)	Heating (kW)	Full Load Current (Amps)
W285A/105	Low	25	83	1.20	1.47	2.05	0.52
W285A/105	Medium	31	115	1.67	2.05	2.50	0.52
W285A/105	High	36	148	2.14	2.63	2.88	0.52
W285A/208	Low	25	165	2.39	2.93	3.68	1.04
W285A/208	Medium	31	226	3.26	4.00	4.50	1.04
W285A/208	High	38	288	3.92	4.80	5.00	1.04
W285A/312	Low	26	142	2.06	2.53	3.88	1.56
W285A/312	Medium	33	289	4.18	5.38	5.88	1.56
W285A/312	High	41	466	6.08	7.45	7.70	1.56
W285A/414	Low	27	193	2.80	3.43	4.95	2.08
W285A/414	Medium	35	374	5.41	6.63	7.28	2.08
W285A/414	High	43	582	7.43	9.10	9.35	2.08
W285A/517	Low	30	242	3.51	4.30	6.45	2.60
W285A/517	Medium	37	445	6.43	7.88	9.25	2.60
W285A/517	High	45	682	9.16	11.22	11.80	2.60
W285HD/312	Low	26	146	2.12	2.60	4.28	1.56
W285HD/312	Medium	33	297	4.28	5.25	6.55	1.56
W285HD/312	High	41	479	6.61	8.10	8.63	1.56
W285HD/414	Low	27	198	2.86	3.50	5.48	2.08
W285HD/414	Medium	35	385	5.57	6.83	8.13	2.08
W285HD/414	High	43	599	8.10	9.92	10.47	2.08

* Cooling duties are based on Chilled Water (CW) on/off at 5.5°C/11°C, with air on at 23°C/16°C dry/wet bulb.

Heating duties are based on Low Pressure Hot Water (LPHW) on/off at 82°C/71°C, with air on at 20°C.

For other water temperatures, apply 'Water Temperature Correction Factors' from the table below.

Dimensions

Model/Range		W285A/105	W285A/208	W285A/312	W285A/414	W285A/517	W285HD/312	W285HD/414
Length (Excluding Plenum)	mm	900	900	900	900	900	1500 including integral plenum	1500 including integral plenum
Optional Inlet Plenum	mm	600	600	600	600	600		
Nominal Width	mm	600	900	1250	1450	1750	1250	1450
Depth	mm	285	285	285	285	285	285	285
Number of Fans		1	2	3	4	5	3	4
Maximum Number of 247 mm OD Spigots		4	5	6	6	7	5	6
Unit Weight	kg	37	42	58	73	94	70	90

Water Temperature Correction Factors

Low Pressure Hot Water		Chilled Water	
Temperature °C	Factor	Temperature °C	Factor
82/71	1.00	5.5/11	1.00
70/60	0.79	6/12	0.87
60/50	0.59	7/12	0.88
—	—	10/15	0.60

Notes:

* All cooling and heating duties shown are coil duties only and do not allow for any fan motor or duct gains.

† All NR figures have been calculated making the following assumptions:

(a) Room absorption of 8 dB.

(b) Ceiling loss of: dB 4 7 9 11 14 16
In the frequency of: Hz 125 250 500 1k 2k 4k

(c) A one metre length of non-regenerative, unlined PVC flexible ducting being fitted in each supply duct, and a maximum air velocity of 3 m/sec at each outlet spigot.

(d) Reverberant field.

‡ All airflow volumes shown are based upon 30 Pa external static resistance.

Chilled water values based on total cooling.

W335Q & W335HD FAN COIL UNITS



The largest unit in the range is 335 mm deep and has a choice of three widths, with volumes from 156 to 779 litres/sec and total cooling duties up to 13.77 kW with heating outputs up to 14.3 kW, based on 30 Pa external resistance.

Also available in this model range is the W335Q which offers a quieter unit with volumes from 156 to 640 litres/sec and cooling duties of 11.32 kW and heating outputs up to 11.75 kW, based on 30 Pa external resistance.

The W335Q unit is fitted with a smaller diameter fan. The W335HD is a high duty unit and is fitted with a large diameter fan.

Performance

Model/Range	Speed Range	Noise Rating † (NR)	Airflow Volume ‡ (litres/sec)	Sensible Cooling (kW)	Total Cooling (kW)	Heating (kW)	Full Load Current (Amps)
W335Q/312	Low	27	156	2.26	2.78	4.78	1.56
W335Q/312	Medium	34	317	4.59	5.63	7.35	1.56
W335Q/312	High	42	512	7.39	9.05	9.70	1.56
W335Q/414	Low	28	212	3.06	3.75	6.13	2.08
W335Q/414	Medium	36	411	5.94	7.28	9.10	2.08
W335Q/414	High	44	640	9.24	11.32	11.75	2.08
W335HD/414	Low	29	283	4.10	5.03	7.30	4.96
W335HD/414	Medium	35	455	6.57	8.05	9.67	4.96
W335HD/414	High	42	700	10.10	12.37	12.37	4.96
W335HD/517	Low	30	310	4.49	5.50	8.33	6.20
W335HD/517	Medium	36	544	7.85	9.62	11.62	6.20
W335HD/517	High	41	779	11.24	13.77	14.30	6.20

* Cooling duties are based on Chilled Water (CW) on/off at 5.5°C/11°C, with air on at 23°C/16°C dry/wet bulb.

Heating duties are based on Low Pressure Hot Water (LPHW) on/off at 82°C/71°C, with air on at 20°C.

For other water temperatures, apply 'Water Temperature Correction Factors' from the table below.

Dimensions

Model/Range		W335Q/312	W335Q/414	W335HD/414	W335HD/517
Length (Including Inlet Plenum)	mm	1500	1500	1500	1500
Nominal Width	mm	1250	1450	1450	1750
Depth	mm	335	335	335	335
Number of Fans		3	4	4	5
Maximum Number of 247 mm OD Spigots		5	6	6	7
Unit Weight	kg	120	130	130	150

Water Temperature Correction Factors

Low Pressure Hot Water		Chilled Water	
Temperature °C	Factor	Temperature °C	Factor
82/71	1.00	5.5/11	1.00
70/60	0.79	6/12	0.87
60/50	0.59	7/12	0.88
—	—	10/15	0.60

Notes:

* All cooling and heating duties shown are coil duties only and do not allow for any fan motor or duct gains.

† All NR figures have been calculated making the following assumptions:

(a) Room absorption of 8 dB.

(b) Ceiling loss of: dB 4 7 9 11 14 16

In the frequency of: Hz 125 250 500 1k 2k 4k

(c) A one metre length of non-regenerative, unlined PVC flexible ducting being fitted in each supply duct, and a maximum air velocity of 3 m/sec at each outlet spigot.

(d) Reverberant field.

‡ All airflow volumes shown are based upon 30 Pa external static resistance.

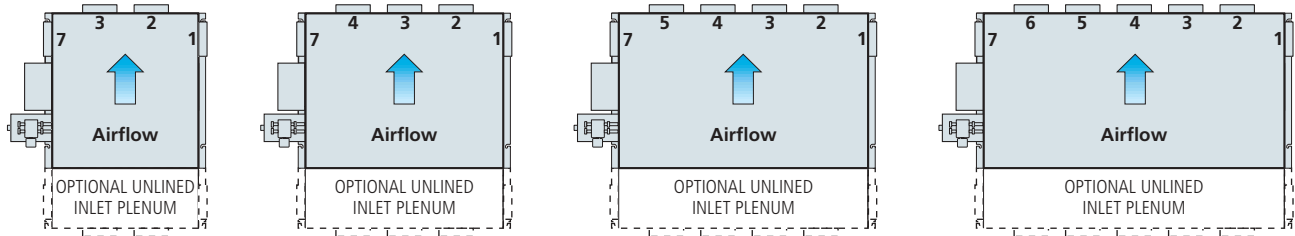
Chilled water values based on total cooling.

SPIGOT CONFIGURATIONS

Airflow Spigot Configurations

Moducel Waterside Fan Coil Units (FCUs) have been designed to provide airflow distribution from the front, left or right of the unit, according to requirements. Unused spigot positions are blanked off using blanking plates, these can be changed if necessary.

Left handed units are shown below, viewed from above, with spigot options and sizes.

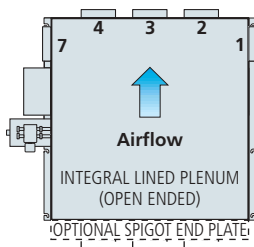


W235/105
W285A/105

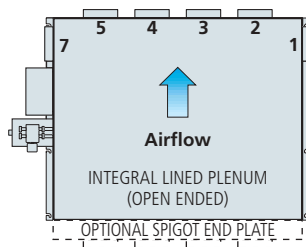
W235/208
W235/310
W285A/208

W235/312
W235/414
W285A/312
W285A/414

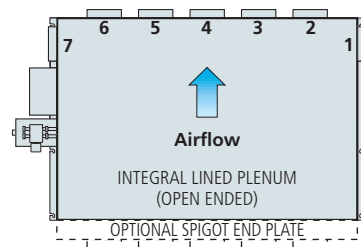
W235/517
W285A/517



W175/108
W175/210
W285HD/312
W335Q/312



W285HD/414
W335Q/414
W335HD/414



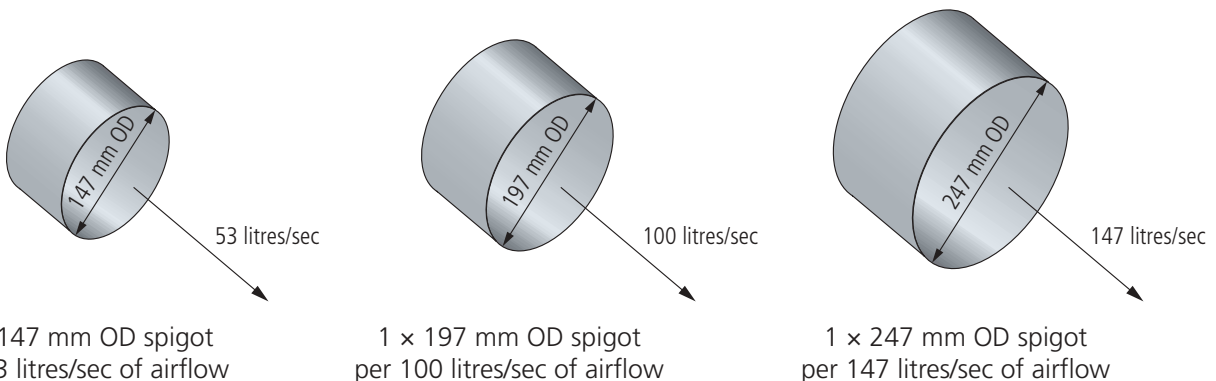
W175/315
W335HD/517

Spigot Sizes

Model	W175	W235	W285A	W285HD	W335Q	W335HD
Spigot OD sizes for models	mm	147	197	247	247	247

Active Spigot Calculation

All Fan Coil Units (FCUs) are supplied with active discharge spigots on the front face and sides of the unit. The number of spigots required is based upon a duct velocity 3 m/s.

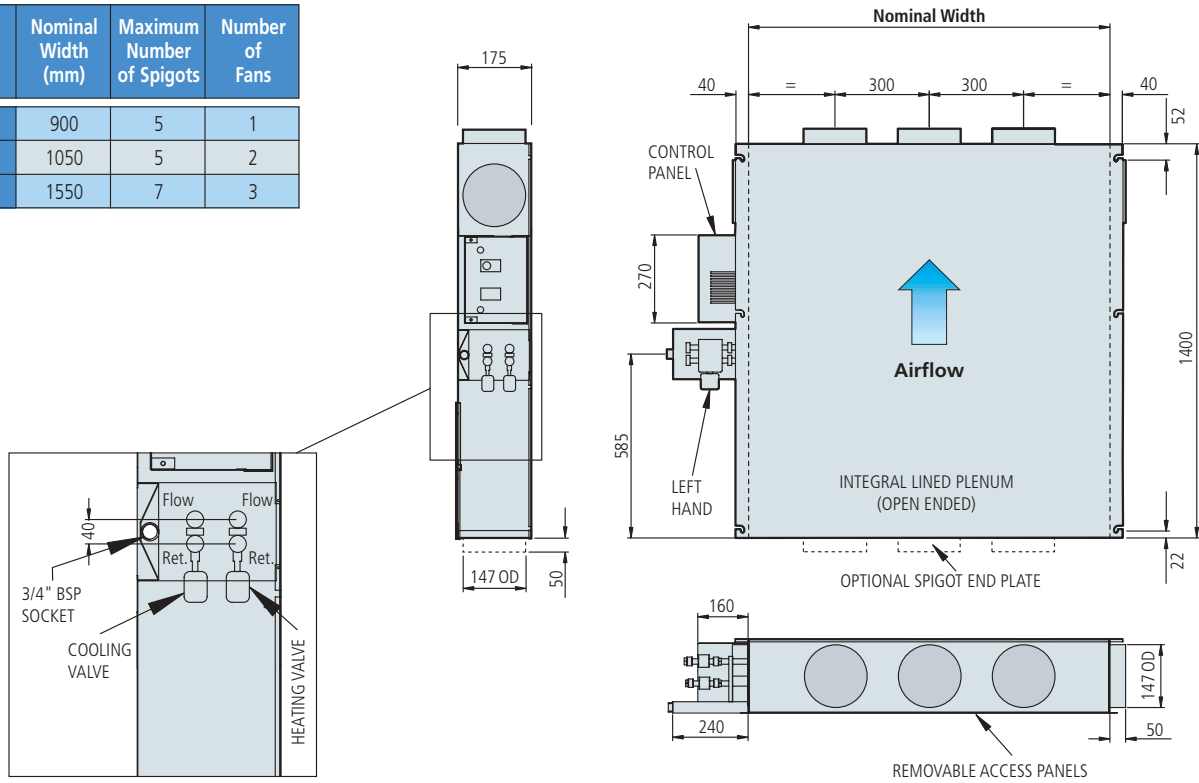


Spigot positions are chosen to meet on-site ductwork requirements.

GENERAL ARRANGEMENT

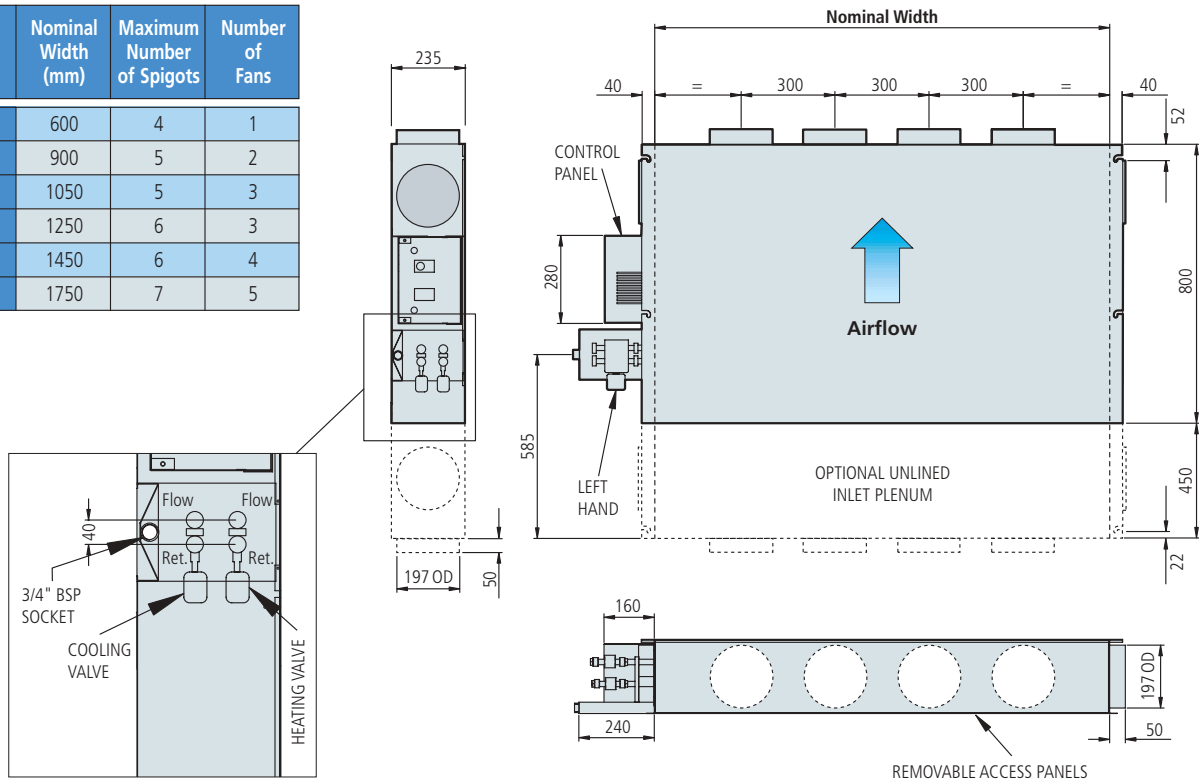
W175 (Size 108 viewed from above with integral lined inlet plenum and LH controls)

Model W175 (Range)	Nominal Width (mm)	Maximum Number of Spigots	Number of Fans
108	900	5	1
210	1050	5	2
315	1550	7	3



W235 (Size 414 viewed from above with optional unlined inlet plenum and LH controls)

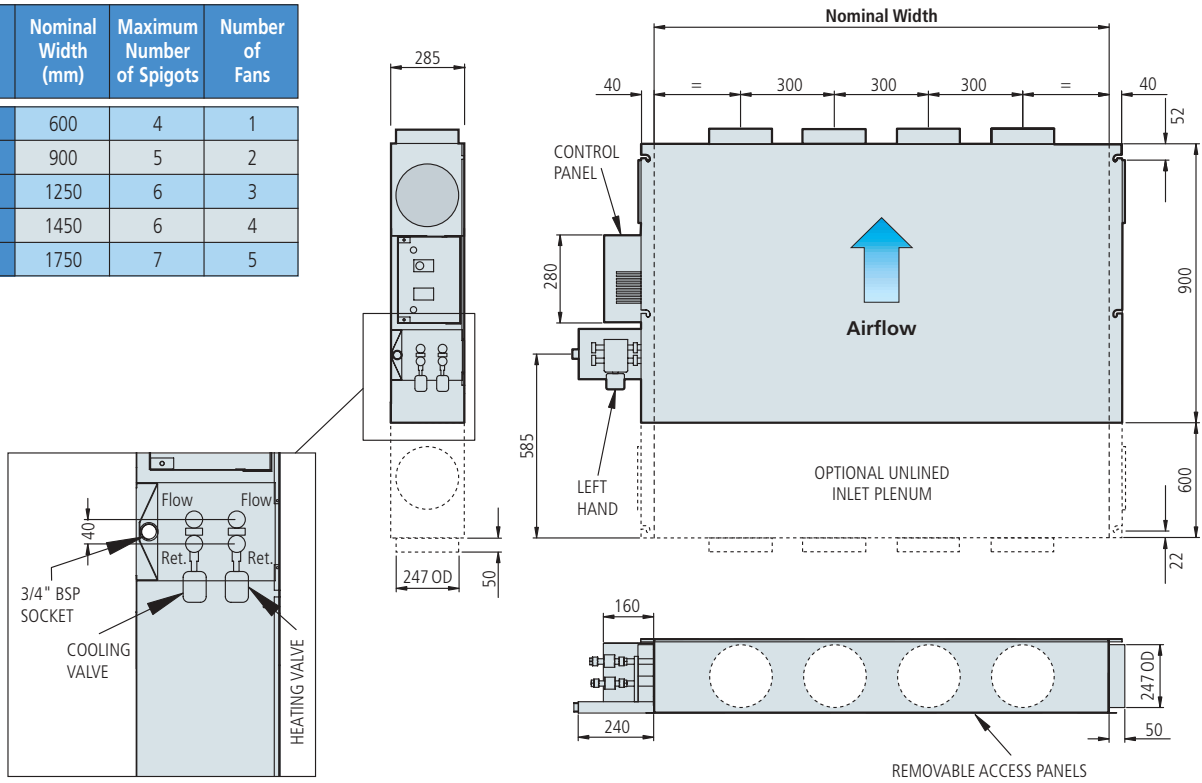
Model W235 (Range)	Nominal Width (mm)	Maximum Number of Spigots	Number of Fans
105	600	4	1
208	900	5	2
310	1050	5	3
312	1250	6	3
414	1450	6	4
517	1750	7	5



GENERAL ARRANGEMENT

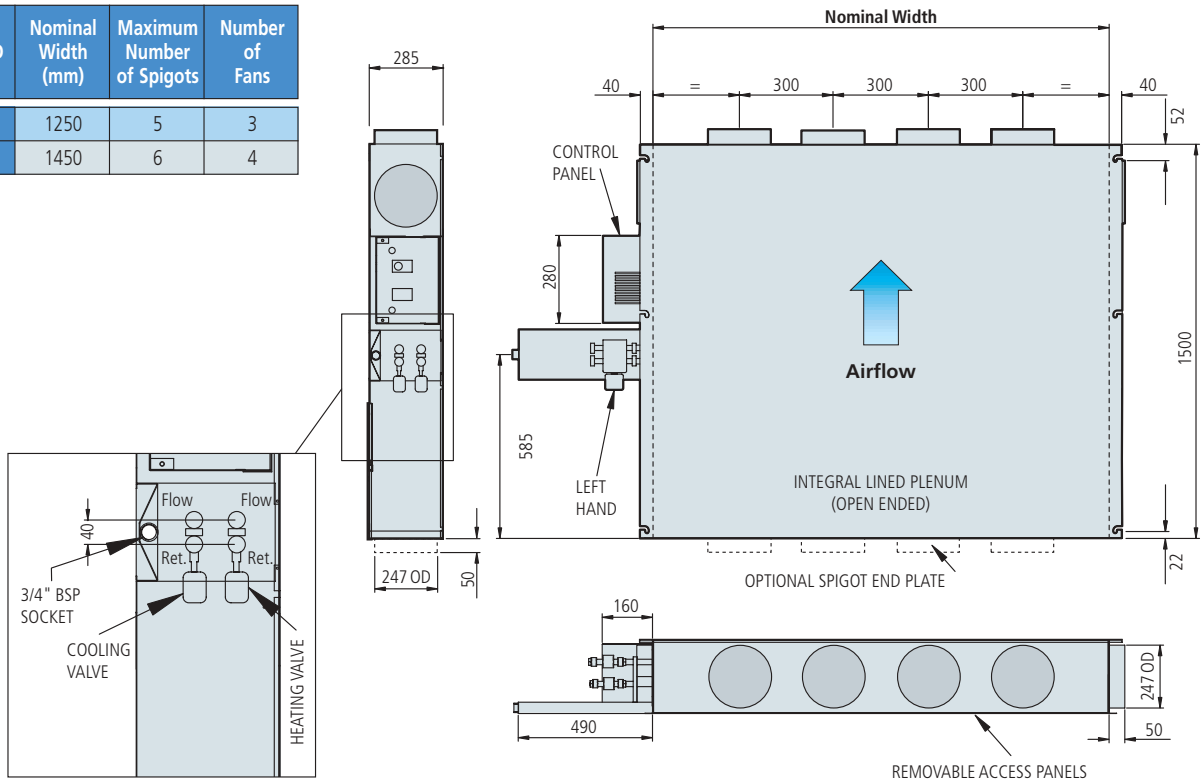
W285A (Size 414 viewed from above with optional unlined inlet plenum and LH controls)

Model W285A (Range)	Nominal Width (mm)	Maximum Number of Spigots	Number of Fans
105	600	4	1
208	900	5	2
312	1250	6	3
414	1450	6	4
517	1750	7	5



W285HD (Size 414 viewed from above with integral lined inlet plenum and LH controls)

Model W285HD (Range)	Nominal Width (mm)	Maximum Number of Spigots	Number of Fans
312	1250	5	3
414	1450	6	4

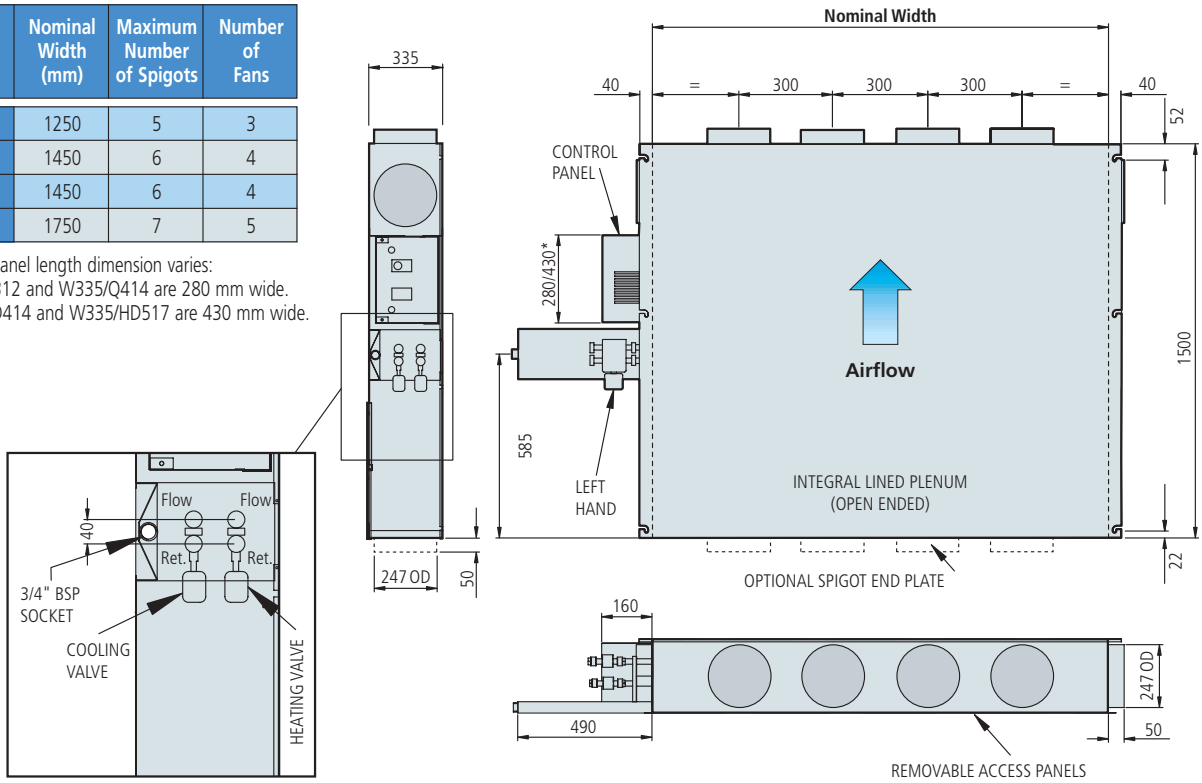


GENERAL ARRANGEMENT & ELECTRICAL INFORMATION

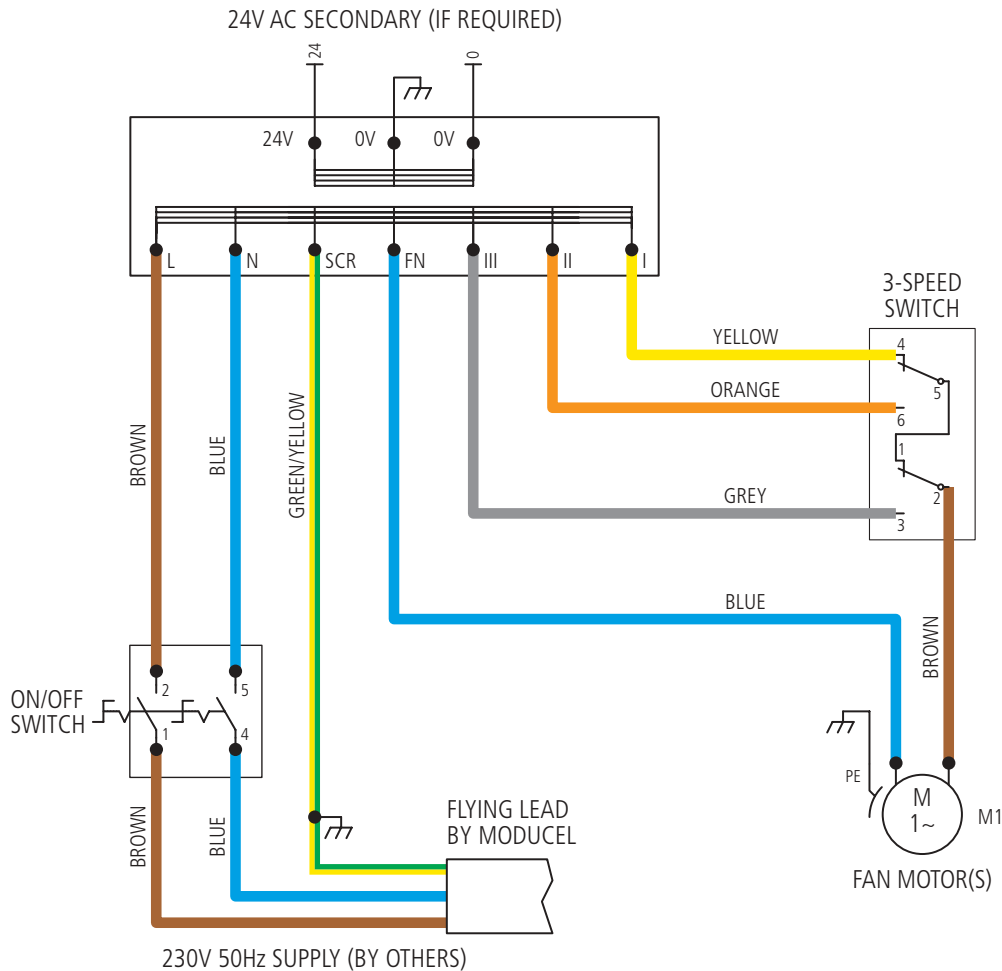
W335Q/HD (Size 414 viewed from above with integral lined inlet plenum and LH controls)

Model W335 (Range)	Nominal Width (mm)	Maximum Number of Spigots	Number of Fans
Q312	1250	5	3
Q414	1450	6	4
HD414	1450	6	4
HD517	1750	7	5

* Control panel length dimension varies:
 W335/Q312 and W335/Q414 are 280 mm wide.
 W335/HD414 and W335/HD517 are 430 mm wide.



Electrical Information



TECHNICAL SPECIFICATION

Casing

Casings are manufactured from 1 mm prime quality galvanised sheet steel as standard. Each unit incorporates 0.8 mm spun twist in self-sealing spigots, lined discharge plenum, and are available with top or bottom access.

Where the inlet plenum option is selected the plenum becomes an integral part of the unit.

Controls

- Siemens controls (supplied or free issue).
- Trend controls (supplied or free issue).
- Eaton-Williams electronic controls package.

Controllers function from remote sensors and have built-in or remote set-point adjustment. Occupancy sensors can be provided to stop and start the unit or adjust the set-point as required.

Fans

Fans are double inlet, direct-driven centrifugal type, with high efficiency, low noise, forward curved, galvanised sheet steel impellers, housed within heavy gauge galvanised scrolls.

Impeller/motor assemblies are dynamically balanced in two planes in accordance with BS5265, Part 1, 1979 to G2.5.

Motors

AC motors are totally enclosed, external rotor type, speed controllable, suitable for 240V 50Hz 1ph electrical supply and have an enclosure protection to IP44. Bearings are sealed for life, maintenance-free ball type, having a minimum life expectancy of 40,000 hours under normal operating conditions. Motors are insulated to Class 'B' and have been equipped with thermal overload protection. Power factor corrected to +0.97.

Coils

Coil matrix blocks are manufactured from seamless copper tubes mechanically expanded into plate type aluminium fins. The aluminium fin die-formed collars completely cover tubes for maximum heat transfer and accurate control of fin spacing. Coil headers are manufactured from heavy gauge seamless copper tube. All coils are individually tested to 20 Bar with dry air in water at 20°C.

The coil is mounted within an insulated multi-formed drain tray with built-in condensate double fall.

The whole coil / drain tray can be withdrawn from the unit.

The coils are fitted, as standard, with screw-in type air vents/cocks.

Filters

Filters are semi-washable EU2 grade.

The media is directly sewn onto a copper coated wire frame and is held in position in the unit by industrial grade Velcro backing strips. The filter media is F1 fire resistant to DIN 5348.

The dust holding capacity is 380 g/m².

Casing Insulation

Insulation is 6 mm thick high density (100 kg/m³) Class '0' foam suitable for both thermal and acoustic insulation. Insulation has a thermal conductivity of 0.050 to 0.065 W/mk.

W285HD and W335HD units have 40 mm insulation in plenums.

Controls Box

Standard units are fitted with a purpose designed control housing positioned on the side of the unit for easy access and include a hinged cover. The housing is complete with an on/off switch and separate manual 3-speed fan selector switch and flying lead for speedy connection.

A 24 step transformer is provided, together with a 24 volt output to supply a controller. All wiring is carried out in accordance with current regulations.

ORDERING INFORMATION

Options and Order Codes

Fan Coil Unit Selection

MODEL/RANGE	SPEED	HANDING	ACCESS	CONTROLLER MANUFACTURER	CONTROL TYPE	SENSOR TYPE	INLET PLENUM
W175/108	L Low	LH Left hand coil (in direction of airflow)	BOT Bottom	SIE Siemens	HC Heat cool (Standalone)	RA Return air type	IP Only W235 and W285A units can be selected without an inlet plenum
W175/210	M Medium		TOP Top	FSIE Free Issue Siemens	C Cool only (Standalone)	RS Room type	
W175/315	H High		TPF Top with feet	L10 Trend (IQL10)	H Heat only (Standalone)	RS3 Room type (3-speed switch)	
W235/105		RH Right hand coil (in direction of airflow)		FL10 Free Issue Trend (IQL10)	HCI Heat cool (Intelligent)	RSS Room sensor with set-point adjustment	
W235/208				L11 Trend (IQL11)	CI Cool only (Intelligent)		
W235/310				FL11 Free Issue Trend (IQL11)	HI Heat only (Intelligent)		
W235/312				L21 Trend (IQ211)	HCM Heat cool (Master)		
W235/414				FL21 Free Issue Trend (IQ211)	CM Cool only (Master)		
W235/517				211 Trend (IQ211)	HM Heat only (Master)		
W285A/105				F211 Free Issue Trend (IQ211)	HCM Heat cool (Master Intelligent)		
W285A/208				EWE Eaton-Williams electronic controls package	HMI Heat only (Master Intelligent)		
W285A/312					HCS Heat cool (Slave)		
W285A/414					CS Cool only (Slave)		
W285A/517					HS Heat only (Slave)		
W285HD/312					HCSI Heat only (Slave Intelligent)		
W285HD/414					CSI Cool only (Slave Intelligent)		
W335Q/312					HSI Heat only (Slave Intelligent)		
W335Q/414							
W335HD/414							
W335HD/517							

MODEL/RANGE SPEED HANDING ACCESS CONTROLLER MANUFACTURER CONTROL TYPE SENSOR TYPE INLET PLENUM

W235/414 L LH BOT SIE HC RS3 IP

Fan Coil Unit — Optional Extras

HEAT/COOL VALVES	BINDER POINTS	CONDENSATE PUMP	DISCHARGE SPIGOT	DRAIN TRAY
HCV Fit heat/cool valves to coil CLV Fit cool only valves to coil HTV Fit heat only valves to coil	BP2 Supply and fit 2 off binder points BP4 Supply and fit 4 off binder points	FCP Fit Free Issue condensate pump MCP Supply and fit Masterway condensate pump OCP Supply and fit Osaka condensate pump ACP Supply and fit Aspen condensate pump	RSP Rectangular discharge spigot	ED Extended drain tray MD Masterway drain tray (selected with Masterway condensate pump) OD Osaka drain tray (selected with Osaka condensate pump) AD Aspen drain tray (selected with Aspen condensate pump)

HEAT/COOL VALVES BINDER POINTS CONDENSATE PUMP DRAIN TRAY

HCV BP4 OCP OD

ORDERING EXAMPLE

W235/414 L LH BOT SIE HC RS3 IP HCV BP4 OCP OD

The W235/414 unit is supplied with a low speed range, left hand coil and access to bottom of unit, Siemens controller with a heat cool (standalone) control, room type (3-speed switch) sensor, with an inlet plenum.

Optional extras fitted are heat/cool valves, 4 off binder points, supplied and fitted Osaka condensate pump and Osaka drain tray.

PRODUCT RANGES

Air-cooled & Water-cooled Liquid Chillers

Packaged Roof-Top Units

Full Range of Air Handling Units

Fan Coil Units

Packaged Telecommunications Units

Fresh Air Units

Condensing Units

Air Cooled Condensers

Low Temperature Cassettes

Cellar & Storage Low Temperature Cooling Units

Packaged In-Wall Units

Stand-alone Humidifiers

OEM Process Cooling Control Units

Custom Designed Packages

Constant & Variable Air Volume Units

