



42VSGS-W Series
High-Wall Type Chilled Water Coil
16,900 - 38,900 Btu/Hr

TT Air Engineering



42VSGS-W Series High-Wall Type Chilled Water Coil



Wireless Remote control
WC-UA04NE

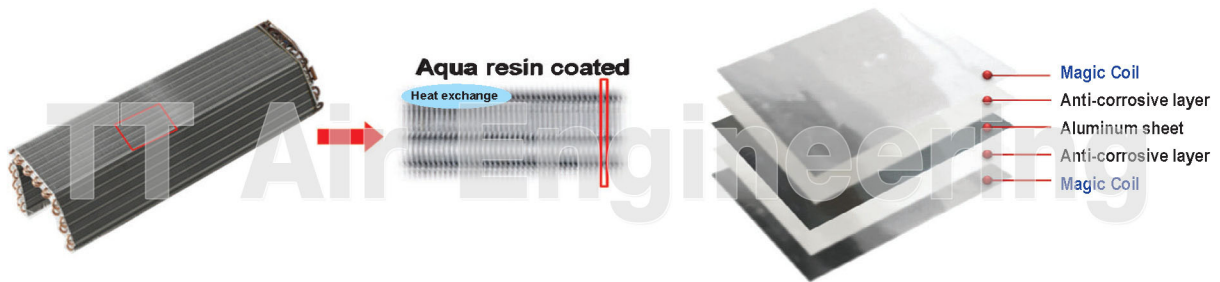
Operation Feature

This classic new Chilled water coil product are elegant, grossy material, smooth, curve and white LED. designed to reflect luxurious appearance and to complement modern exterior beautifully

- Self-clean operation with Aqua-resin coated aluminium fin
- Auto swing mechanism guarantees even distribution of air flow and better balance of room temperture
- Easy cleaning and service
- Auto restart function (need to set up)
- Hi efficiency with BLDC motor
- 5 Selectable Fan revolution speed

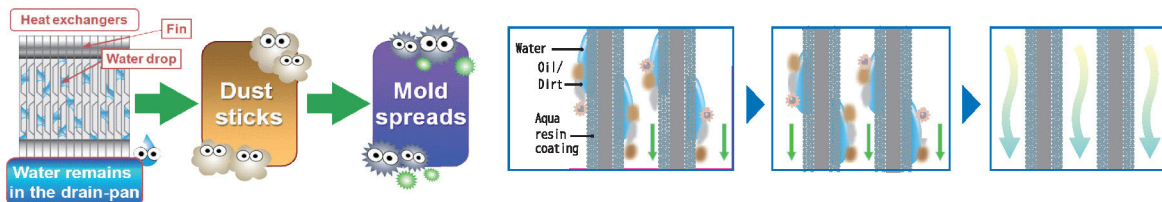
Aqua Resin Coated

The mechanism of the wash-off by aqua-resin coated indoor unit's fins.



Magic Coil

- The "Magic Coil" prevents dirt and oil from sticking on the fins.
- The dew condensation water flush out dirt and oil.
- A drying operation inhibits the propagation of mold after washing.



Protection Filter

◀ ACTIVATED CABON

Specification

Description			Chilled Water Coil - HIGH WALL Type					
Model Name			42VSGS					
			012W	018W	024W	030W	036W	
Cooling Capacity	W		4,950	7,300	9,230	10,460	11,660	
	Btu/hr.		16,900	24,900	31,500	35,700	39,800	
Power Supply	V/Ph/Hz		220V / 1Ph / 50Hz.					
Power Consumption	W		39	43	76	88	100	
Operating Current	Amp.		0.36	0.39	0.69	0.80	0.91	
Indoor Air Circulation, Max.	cmh		680	1,020	1,360	1,610	1,870	
	cfm		400	600	800	950	1,100	
Fan Motor	Type		BLDC Motor					
	Qty		1	1	1	1	1	
Blower	Type		Cross Flow Fan					
	Dia. x Length	mm	104 x 613	104 x 842	104 x 842	104 x 842	104 x 842	
	Drive type		Direct					
	Qty		1	1	1	1	1	
Heat Exchanger	Face Area	Sq.m	0.22	0.31	0.31	0.31	0.31	
		Sq.ft	2.37	3.34	3.34	3.34	3.34	
	Row		2	2	2	2	2	
	Copper Tube	Size	5.00 mm	8.00 mm				
		Type		Inner-Groove				
Fin per Inch / Material type		21 FPI / Aluminium						
Air Filter			Active Carbon Cleaning Filter					
Unit Dimension	Height	mm	293	320	320	320	320	
	Width	mm	798	1,050	1,050	1,050	1,050	
	Depth	mm	230	250	250	250	250	
Net Weight	kg		9	13	13	14	14	
Connecting Pipe	Water Inlet	inch	1/2	1/2	1/2	1/2	1/2	
	Water Outlet	inch	1/2	1/2	1/2	1/2	1/2	
	Water connecting type		Flair nut (Female Pipe Thread)					
	Drain O.D.	inch	5/8	5/8	5/8	5/8	5/8	

Note : Nominal capacity are base on air entering temp. 80 degree Fwb / 67 degree Fdb ,
 Entering/Leaving water temp. 44/54 degree F at maximum air flow.

Performance Data

Model	Entering Chilled Water Temp. F	Entering Air Temp (Fdb / Fwb)															
		76 / 63				78 / 65				80 / 67				82 / 69			
		Total Capacity	Sensible Capacity	Chilled Water Flowrate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flowrate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flowrate	Water Pressure Drop	Total Capacity	Sensible Capacity	Chilled Water Flowrate	Water Pressure Drop
		btu/h	btu/h	gpm	ft.wg.	btu/h	btu/h	gpm	ft.wg.	btu/h	btu/h	gpm	ft.wg.	btu/h	btu/h	gpm	ft.wg.
42VSGS012W	40	15,300	11,400	3.05	11.40	17,800	12,300	3.55	18.20	20,700	13,300	4.11	25.40	23,500	14,200	4.68	32.80
	45	11,400	9,600	2.27	6.30	13,500	10,300	2.69	8.60	15,800	11,100	3.15	14.10	18,600	12,000	3.70	20.50
	50	8,100	7,900	1.63	3.30	9,500	8,600	1.90	4.40	11,300	9,200	2.26	6.20	13,600	10,000	2.72	9.70
42VSGS018W	40	22,900	17,200	4.56	6.90	26,500	18,400	5.27	9.90	30,500	19,700	6.07	13.10	34,700	21,100	6.91	16.70
	45	16,700	14,300	3.34	3.30	20,000	15,500	3.98	5.00	23,500	16,700	4.68	7.70	27,400	17,900	5.47	10.70
	50	12,000	11,800	2.39	1.80	14,000	12,900	2.79	2.30	16,700	13,800	3.34	3.20	20,200	15,000	4.04	5.50
42VSGS024W	40	29,100	22,100	5.80	12.00	33,500	23,600	6.66	15.60	38,300	25,100	7.64	20.00	43,600	26,800	8.68	25.00
	45	21,700	18,700	4.32	6.30	25,500	20,000	5.09	9.20	29,700	21,400	5.93	12.50	34,500	22,900	6.88	16.30
	50	15,400	15,100	3.07	2.80	18,000	16,700	3.59	3.90	21,600	18,000	4.31	6.50	25,700	19,300	5.13	9.40
42VSGS030W	40	32,700	25,200	6.51	8.90	37,700	26,900	7.50	12.00	43,500	28,800	8.67	15.70	49,500	30,600	9.86	19.70
	45	24,500	21,500	4.88	4.20	28,400	22,800	5.67	6.60	33,400	24,500	6.67	9.40	38,900	26,200	7.77	12.60
	50	17,400	17,300	3.47	2.20	20,300	19,100	4.05	2.80	24,400	20,700	4.87	4.60	28,700	22,100	5.73	6.90
42VSGS036W	40	36,600	28,500	7.30	11.30	42,100	30,300	8.39	14.80	48,500	32,300	9.66	19.00	55,100	34,400	10.98	23.70
	45	27,600	24,300	5.50	6.10	31,800	25,800	6.35	8.50	37,300	27,600	7.45	11.70	43,300	29,400	8.64	15.30
	50	19,700	19,700	3.94	2.70	23,000	21,700	4.60	3.80	27,400	23,400	5.46	6.20	32,000	24,900	6.39	8.60

Note : Water Temperature Rise 10°F

TH = Total capacity (BHU/Hr)

SH = Sensible capacity (BHU/Hr)

GPM = Coolant mass flow rate (GPM)

FT.WG = Coolant pressure drop (FT.WG)

Unit conversion

Metric Tech	x	=	English Unit	x	=	SI Unit
Lenght						
mm	0.03937		in.	25.4		mm
mm	0.003281		ft	304.8		mm
m	3.281		ft	0.3048		m
m	1.094		yd	0.9144		m
Power						
kcal/h				1.163		W
kcal/h	3.968		Btu/h	0.2931		W
Mcal/h	0.3307		Ton refr.	3.517		kW
Pressure						
mm w.g. 4°C	0.03937		in H ₂ O 39.2°F	249.1		Pa
mm Hg 0°C	0.03937		in Hg 32°F	3.386		kPa
mH ₂ O	3.281		ft H ₂ O	2.989		kPa
Velocity						
m/s	3.281		ft/s	0.3048		m/s
m/s	196.9		ft/min	0.00508		m/s
Volume/Time						
m ³ /h	0.5886		ft ³ /min	0.4719		L/s
L/h	4.403 x 10 ⁻³		U.S. gal/min	0.06309		L/s
(m ³ /h)/ (1000 kcal/h)	1.780		cfm/ton	0.1342		L/s kw

Metric Tech	Conversion Function	=	English Unit	Conversion Function	=	SI Unit
Temperature						
°C	(°C x 1.8) + 32		°F	(°F - 32) / 1.8		°C

Prefixes

M	MEGA	- 10 ⁶
k	KILO	- 10 ³
d	DECI	- 10 ⁻¹
c	CENTI	- 10 ⁻²
m	MILLI	- 10 ⁻³
μ	MICRO	- 10 ⁻⁶

Legend

m	METER
cal	CALORIE
L	LITER
°C	DEGREE CELSIUS
°F	DEGREE FAHRENHEIT
K	KELVIN
w	WATT
N	NEWTON
h	HOUR
s	SECOND

Units

mm w.g.	MILLIMETERS WATER GAUGE
mm Hg	MILLIMETERS MERCURY
tonne	= 1000 kg
bar	= 100 kPa
Ton refr.	= ton of refrigerant
	= 12,000 btu/h
Efficiency Conversion	
kW/ton	= 12 / EER
EER	= COP X 3.412
COP	= (12 / kW/Ton) / 3.412

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