

Vivair 



HYDRONIC UNITS
PRODUCT CATALOGUE



About Us...

Welcome to “*Vivair Technologies*”, where engineering excellence meets innovation in air conditioning solutions. Founded by a team of seasoned mechanical engineers with over 15 years of experience, we are passionate about designing and manufacturing cutting-edge air conditioning systems that redefine comfort and efficiency.

Our expertise in engineering and deep understanding of the science behind air conditioning systems allow us to craft solutions that not only provide superior performance but also promote sustainability. Every product we create is meticulously designed, rigorously tested, and built to last, ensuring reliability and customer satisfaction.

Customer satisfaction is at the core of everything we do. From product development to after-sales support, we focus on delivering an exceptional experience through superior quality, durable materials, and advanced engineering.

At “*Vivair Technologies*”, we believe that comfort should never come at the expense of the planet. That’s why we work tirelessly to minimize the environmental impact of our products by using eco-friendly materials and adhering to strict energy standards

We take pride in our engineering heritage and strive to deliver exceptional cooling solutions that redefine the standards of the air conditioning industry.

Join us on our journey as we continue to push the boundaries of air conditioning technology, making your spaces cooler, greener, and smarter.





OUR GOAL

Rooted in a deep sense of responsibility, "Vivair Technologies" is dedicated to shaping a greener future through energy-efficient HVAC systems. Our vision is simple: to be the global leader in sustainable cooling and heating solutions, where every product we create is a step toward a healthier planet.

"Commitment to Innovation, Excellence, and Environmental Responsibility"

We envision a future where air conditioning systems are more than just a luxury, but an essential part of creating sustainable, energy-efficient environments. Our aim is to lead the way in developing advanced, intelligent climate control systems that harmonize with nature, reduce carbon footprints, and promote long-term energy savings.

We aspire to transform the HVAC industry through cutting-edge innovations that not only meet the needs of modern living but also contribute to a cleaner, greener planet. At the core of our vision is the desire to help people live comfortably, sustainably, and responsibly, with an unwavering commitment to excellence in every product we create.





Product Range- Hydronic Cassette Units:

4 Way Cassette Units



2 Way Cassette Units



1 Way Cassette Units



Product Range- Hydronic Cassette Units:

360° Round Cassette
Units



Features:

- ✓ Compact design for easy installation.
- ✓ Flexibility of 4 Way , 2 Way, 1 Way & 360 Round cassette suitable for your need.
- ✓ The unique design of centrifugal fan ensures the quiet running of the unit. This thoroughly eliminates the bothering throttle noise inside the room.
- ✓ Units equipped with high-performance condensate drain pump ensures proper drain of condensate water.
- ✓ Return air enters through a large grille, cleaned by an easily removable, washable filter, and then keep the room air fresh through constant circulation.
- ✓ Our unique design of the diffuser ensures quiet and uniform air flow.
- ✓ Also available with BLDC motor.
- ✓ Valve Station (Optional)
 - 2 Way valve with actuator.
 - 3 Way valve with actuator.
 - Ball valve with without strainer.



4-Way Cassette Units : (Technical Specification)

Details:

- ✓ 2 Pipe Cassette
- ✓ Range:- 0.8 ton to 4.0 ton
- ✓ AC / BLDC Motor
- ✓ BMS compatible PCB
- ✓ CFM: 300-1400 CFM
- ✓ Inbuilt drain pump.
- ✓ Cordless remote.
- ✓ Auto Swing
- ✓ Fresh air intake



Technical Specification:

MODEL	VTCWC-2A08	VTCWC-2A10	VTCWC-2A13	VTCWC-2A15	VTCWC-2A20	VTCWC-2A25	VTCWC-2A30	VTCWC-2A40
Performance Parameters								
Nominal Capacity (TR)	0.8	1	1.3	1.5	2	2.5	3	4
Cooling Capacity (Kw) H/L	3.3 / 2.4	3.9 / 2.8	4.5 / 3.0	5.4 / 3.5	7.2 / 4.7	9.0 / 5.9	10.8 / 7.0	12.6 / 8.2
Air Flow Volume (CFM) H/L	300 / 212	400 / 282	500 / 353	600 / 300	800 / 400	1000 / 500	1200 / 600	1600 / 800
Air Flow Volume (CMH) H/L	510 / 360	680 / 480	850 / 600	1020 / 510	1360 / 680	1700 / 850	2040 / 1020	2720 / 1400
Cooling Coil								
Fin Material	Hydrophilic Aluminium							
No of Row	2				3			
Tube Outside Diameter (mm)	9.5							
Tube Material	Copper							
Water Flow (GPM)	2.7	3.1	4.1	5.1	6.2	7.4	8	9.9
Motor								
Type	AC / BLDC							
Voltage/Cycle/Phase (V/Hz/Ph)	220-240 / 50 / 1							
Motor Input Power (W) (H/M/L)	55	62	76	96	120	165	189	225
Sound Pressure Level								
Noise Level (dB(A))	39	42	45	45	46	48	50	52
Blower								
Type	Centrifugal Fan							
Dimensions & Weight								
(W x D x H) mm								
Dimension Body	570 x 570 x 260	570 x 570 x 260	570 x 570 x 260	835 x 835 x 250	835 x 835 x 250	835 x 835 x 290	835 x 835 x 290	835 x 835 x 290
Dimension Panel	650 x 650 x 55	650 x 650 x 55	650 x 650 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55	950 x 950 x 55
Gross Weight Body / Panel (kg)	20.3 / 4	20.3 / 4	20.3 / 4	28 / 6	29 / 6	31 / 6	32.5 / 6	32.5 / 6
Pipe Size								
Inlet Tube Diameter (inch)	3/4"							
Outlet Tube Diameter (inch)	3/4"							
Drain Pipe (mm)	25							

Note:

1. For BLDC motor models will be VTCWC-2B__.
2. BLDC motor models starts from 1TR.
3. All BLDC motor models comes in full size panel 950x950 & body 835x835.

*Above data are under standard test conditions. As part of continuous research and development, the above features & specifications, model may change without prior notice. Product images shown are for reference only, actual features may vary.



2-Way Cassette Units : (Technical Specification)

Details:

- ✓ 2 Pipe Cassette
- ✓ Range:- 1 ton to 2.0 ton
- ✓ AC Motor
- ✓ BMS compatible PCB
- ✓ CFM: 400-800 CFM
- ✓ Inbuilt drain pump.
- ✓ Cordless remote.
- ✓ Auto Swing
- ✓ Fresh air intake



Technical Specification:

MODEL	VTCW2WC-2A10	VTCW2WC-2A15	VTCW2WC-2A20
Performance Parameter			
Nominal Capacity (TR)	1	1.5	2
Air Flow Volume (CMH) H/M/L	680 / 526 / 412	1020 / 780 / 620	1360 / 1060 / 818
Air Flow Volume (CFM) H/M/L	400 / 309 / 242	600 / 458 / 365	800 / 624 / 481
Cooling Capacity (Kw) H/M/L	3.6 / 2.9 / 2.2	5.4 / 4.1 / 3.2	7.1 / 5.6 / 4.1
Cooling Coil			
Fin Material	Hydrophilic Aluminium Blue Fins		
No of Row	3		
Tube Outside Diameter (mm)	9.5		
Tube Material	Copper		
Water Flow (GPM)	2.8	3.8	5.4
Water Pressure Drop (Kpa)	20	22	22
Motor			
Type	AC Motor		
Voltage/Cycle/Phase (V/Hz/Ph)	220 / 50 / 1		
Motor Input Power (W) (H/M/L)	64	110	130
Speed type	3 Speed		
Sound Pressure Level			
Noise Level (dB(A))	42	45	46
Blower			
Type	Centrifugal Fan		
Material	ABS		
Dimensions & Weight			
(W x D x H) mm			
Dimension Body	1140 x 575 x 290	1140 x 575 x 290	1140 x 575 x 290
Dimension Panel	1240 x 680 x 50	1240 x 680 x 50	1240 x 680 x 50
Gross Weight Body/Panel (kg)	32 / 6	36 / 6	38 / 6
Pipe Size			
Inlet Tube Diameter	3/4"		
Outlet Tube Diameter	3/4"		
Drain Pipe (mm)	25		

****Minimum order quantity 50Nos.**

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1- Way Cassette Units: (Technical Specification)

Details:

- ✓ 2 Pipe Cassette
- ✓ Range:- 1 ton to 1.5 ton
- ✓ AC Motor
- ✓ BMS compatible PCB
- ✓ CFM: 400-500 CFM
- ✓ Inbuilt drain pump.
- ✓ Cordless remote.
- ✓ Auto Swing
- ✓ Fresh air intake



Technical Specification:

MODEL	VTCW2WC-2A10	VTCW1WC-2A15
Performance		
Nominal Capacity (TR)	1	1.5
Air Flow Volume (CMH) H/M/L	680 / 515 / 340	850 / 660 / 430
Air Flow Volume (CFM) H/M/L	400 / 302 / 200	500 / 390 / 255
Cooling Capacity (Kw) H/M/L	3.6 / 3.0 / 2.8	4.5 / 3.8 / 3.2
Cooling Coil		
Fin Material	Hydrophilic Aluminium Blue Fins	
No of Row	3	
Tube Outside Diameter (mm)	9.5	
Water Flow (GPM)	2.91	3.39
Water Pressure Drop (kPa)	20.00	22.00
Motor		
Type	AC Motor	
Voltage/Cycle/Phase (V/Hz/Ph)	220 / 50 / 1	
Motor Input Power (W) (H/M/L)	29	38
Speed type	3 Speed	3 Speed
Blower		
Type	Centrifugal Fan	
Material	ABS	
Sound Pressure Level		
Noise Level (dB(A))	46.00	47
Dimensions & Weight		
(W x D x H) mm		
Dimension Body	958 x 413 x 236	958 x 413 x 236
Dimension Panel	1044 x 468 x 31	1044 x 468 x 31
Gross Weight Body/Panel (kg)	23.5 / 6	
Pipe Size		
Inlet Tube Diameter (inch)	3/4"	
Outlet Tube Diameter (inch)	3/4"	
Drain Pipe (mm)	25	

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360° - Round Cassette Units: (Technical Specification)

Details:

- ✓ 2 Pipe Cassette
- ✓ Range:- 1 ton to 1.5 ton
- ✓ AC Motor
- ✓ BMS compatible PCB
- ✓ CFM: 400-500 CFM
- ✓ Inbuilt drain pump.
- ✓ Cordless remote.
- ✓ Auto Swing
- ✓ Fresh air intake



Technical Specification:

MODEL	VTRCU-2A12	VTRCU-2A15	VTRCU-2A20	VTRCU-2A25	VTRCU-2A30	VTRCU-2A35
Performance Parameters						
Nominal Capacity (TR)	1.2	1.5	2	2.5	3	3.5
Air Flow Volume (CMH) H/L	850 / 430	1020 / 520	1360 / 690	1700 / 860	2040 / 1030	2380 / 1200
Air Flow Volume (CFM) H/L	500 / 252	600 / 305	800 / 405	1000 / 505	1200 / 605	1400 / 705
Cooling Capacity (Kw) H/L	4.5 / 3.0	5.6 / 3.6	7.0 / 4.5	9.1 / 6.0	10.8 / 6.8	12.6 / 8.0
Cooling Coil						
Fin Material	Hydrophilic Aluminium Blue Fins					
No of Row	3					
Tube Outside Diameter (mm)	9.5					
Tube Material	Copper					
Water Flow (GPM)	3.43	4.27	5.54	7.52	8.53	9.5
Water Pressure Drop (Kpa)	16	18	19	17	19	22
Motor						
Type	AC					
Voltage/Cycle/Phase (V/Hz/Ph)	220-240/50/1					
Motor Input Power (W) (H/M/L)	76	96	132	152	189	220
Sound Pressure Level						
Noise Level (dB(A))	43	45	46	57	50	52
Blower						
Type	Centrifugal Fan					
Dimensions & Weight						
(W x D x H) mm						
Dimension Body	835 x 835 x 255	835 x 835 x 255	835 x 835 x 255	835 x 835 x 290	835 x 835 x 290	835 x 835 x 290
Dimension Panel	1100 x 1100 x 105	1100 x 1100 x 105	1100 x 1100 x 105	1100 x 1100 x 105	1100 x 1100 x 105	1100 x 1100 x 105
Gross Weight Body/Panel (kg)	25 / 7	25 / 7	25 / 7	34 / 7	34 / 7	34 / 7
Pipe Size						
Inlet Tube Diameter (inch)	3/4"					
Outlet Tube Diameter (inch)	3/4"					
Drain Pipe (mm)	25					

****Minimum order quantity 50Nos.**

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Product Range- Hydronic Hi-Wall Units:

Hi-Wall Units



Features:

- ✓ Compact design for easy installation.
- ✓ Available in 2 pipe and 4 pipe system.
- ✓ The unique design of centrifugal fan ensures the quiet running of the unit. This thoroughly eliminates the bothering throttle noise inside the room.
- ✓ Return air enters from the tope of unit, cleaned by an easily removable, washable filter, and then keep the room air fresh through constant circulation.
- ✓ Our unique design of the diffuser ensures quite and uniform air flow.
- ✓ Also available with BLDC motor.
- ✓ Optional high-performance condensate drain pump.
- ✓ Valve Station (Optional)
 - 2 Way valve with actuator.
 - 3 Way valve with actuator.
 - Ball valve with without strainer.



Hi-Wall Units : (Technical Specification)

Details:

- ✓ 2 Pipe Unit.
- ✓ Range:- 1.0 ton to 2.0 ton
- ✓ BLDC Motor
- ✓ BMS compatible PCB
- ✓ CFM: 440-824 CFM
- ✓ Cordless remote.
- ✓ Auto Swing.



Technical Specification:

MODEL	VTHWU-2B10	VTHWU-2B15	VTHWU-2B20	VTHWU-2B25
Performance Parameters				
Nominal Capacity (TR)	1	1.5	2	2.5
Nominal Air Flow (CMH) H/M/L	700 / 625 / 520	1020 / 930 / 760	1280 / 1050 / 830	1650 / 1350 / 1050
Nominal Air Flow (CFM) H/m/L	412 / 367 / 306	600 / 547 / 448	753 / 617 / 488	970 / 794 / 618
Cooling Capacity (kw)	3.55	5.2	6.74	8.42
Cooling Coil				
Fin Material	Hydrophilic Aluminium Blue Fins			
No of Row	2			3
Tube Outside Diameter (mm)	7 (Inner Grooved)			
Tube Material	Copper Tube			
Coil Face Area	0.24	0.27	0.32	0.32
Water Flow (GPM)	2.5	3.9	5	6.1
Water Pressure Drop (Kpa)	28	31	38	40
Motor				
Type	BLDC (High Efficient BLDC motor with step-less linear control Copper Winding)			
Voltage/Cycle/Phase (V/Hz/Ph)	220-240 / 50 / 1			
Motor Input Power (W) (H/M/L)	15	35	58	58
Sound Pressure Level				
Noise Level (dB(A))	40 / 34	42 / 34	43 / 35	44 / 36
Blower				
Type	Centrifugal Fan			
Dimensions & Weight				
(W x D x H) mm				
Dimension Body	850 x 270 x 220	930 x 315 x 235	1130 x 315 x 235	1130 x 315 x 235
Gross Weight (kg)	10	14	16	18
Pipe Size				
Inlet Tube Diameter (inch)	5/8"			7/8"
Outlet Tube Diameter (inch)	5/8"			7/8"
Drain Pipe (mm)	16			

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Product Range- Concealed Type Fan Coil Units

Concealed Type
Fan Coil Units



Feature:

- ✓ Compact low height design for easy installation.
- ✓ Highly silent low noise FCUs.
- ✓ Robust body with 20G Precoated GI construction as standard.
- ✓ Drain pan constructed out of 20G SS 304.
- ✓ Extended drain pan for valve assembly.
- ✓ Drain pan insulation 13mm nitrile / 13mm XLPE.
- ✓ Cooling coil hydrophilic AL coated fins & copper tube of 3/8".
- ✓ Available with 1 row heating coil also.
- ✓ Centrifugal GI / AL low noise impellers.
- ✓ Rough filter of 12mm.
- ✓ Also available with BLDC motor.
- ✓ Valve Station (Optional)
 - 2 Way valve with actuator.
 - 3 Way valve with actuator.
 - Ball valve with without strainer.
- ✓ Thermostats. (Optional)



Concealed Fan Coil Units : (Technical Specification)

Details:

- ✓ 2 Pipe & 4 Pipe Unit.
- ✓ Range:- 1.0 ton to 3.5 ton.
- ✓ 20G Precoated GI casing.
- ✓ AC & BLDC Motor.
- ✓ CFM: 400-1400 CFM
- ✓ GI / AL DIDW centrifugal fans.
- ✓ SS 304 Drain pan.
- ✓ Digital Thermostat (Optional).
- ✓ Valve station. (Optional)



Technical Specification:

MODEL	VTFCU-2A10	VTFCU-2A15	VTFCU-2A20	VTFCU-2A25	VTFCU-2A30	VTFCU-2A35
Performance Parameters						
Nominal Capacity (TR)	1	1.5	2	2.5	3	3.5
Air Flow Volume (CMH)	680	1020	1360	1700	2040	2380
Air Flow Volume (CFM)	400	600	800	1000	1200	1400
Cooling Capacity (Kw)	3.5	5.3	7.1	8.7	10.6	12.3
Filter Type	Rough Filter					
Cooling Coil						
Fin Type	Hydrophilic Aluminium Blue Fins					
No of Row	3			4		
Tube Outside Diameter (mm)	9.5					
Tube Material	Copper					
Fins Per Inch	12-13					
Water Flow (GPM)	2.40	3.60	4.80	6.00	7.20	8.40
Motor						
Type	AC / BLDC					
Voltage/Cycle/Phase (V/Hz/Ph)	230 / 50 / 1					
Motor Input Power (Kw)	0.037	0.062	0.124	0.315	0.45	0.55
No. of Motor	1					
Blower						
Type	DIDW forward curved centrifugal fan					
Material Type	GI					
No. of Blower use	2	2	2	2	2	2
Dimensions & Weight						
(W x D x H) mm						
Dimension Body	1050 x 600 x 260	1150 x 600 x 260	1200 x 600 x 310	1300 x 600 x 350	1350 x 600 x 350	1375 x 600 x 390
Operating Weight (kg)	26	30	45	62	78	90
Pipe Size						
Inlet Tube Outer Diameter (inch)	3/4"					
Outlet Tube Outer Diameter (inch)	3/4"					
Drain Pipe (mm)	25					

Note: For BLDC motor models will be VTFCU-2B_.

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Product Range – Single Skin Ductable Unit (Hydronic)

Single Skin
Ductable Unit



Feature:

- ✓ Available In AC Motor
- ✓ 800 to 3000 CFM
- ✓ Designed for Large Spaces
- ✓ Low Noise Levels up to 74 db
- ✓ Blue tech / Silver tech Fin protection
- ✓ 10 Micron Filter
- ✓ BLDC Motor optional
- ✓ BMS compatible PCB (optional)
- ✓ Wired with wireless LCD Remote Control
- ✓ Anti rust Powder coating after seven tank chemical process.
- ✓ 500 hr salt test passed



Single Skin Ductable Units (Hydronic): (Technical Specification)

Details:

- ✓ Range:- 2.0 ton to 7.5 ton.
- ✓ Single Skin Powder coated GI casing.
- ✓ AC / BLDC Motor.
- ✓ CFM: 800-3000 CFM
- ✓ DIDW centrifugal fans.
- ✓ Wireless/ Wired Digital Thermostat (Optional).
- ✓ Valve station. (Optional)



Technical Specification:

MODEL	VTDU-A020SS	VTDU-A030SS	VTDU-A040SS	VTDU-A050SS	VTDU-A075SS
Performance Parameters					
Nominal Capacity (TR)	2	3	4	5	7.5
Air Flow Volume (CMH)	1360	2040	2720	3400	5100
Air Flow Volume (CFM)	800	1200	1600	2000	3000
Cooling Capacity (Kw)	7	10.5	14	17.5	26.25
Filter Type					
Mesh Filter					
Cooling Coil					
Type	Hydrophilic Aluminium Blue Fins				Bare
No of Row	2	3	3	4	4
Tube Outside Diameter (mm)	9.52	7	9.52	9.52	9.52
Tube Material / Grooved	Copper / IGT				
Water Flow (GPM)	5	7.5	10	12.5	18.75
Fan Motor					
Type	AC				
Voltage/Cycle/Phase (V/Hz/Ph)	230 / 50 / 1				
Motor Input Power (Kw)	1.24	4.0	4.0	4.0	4.0
RPM	1300	1300	1300	1300	1300
Blower					
Type	DIDW forward curved centrifugal fan				
Material Type	Aluminium				
Dimensions & Weight					
(WxDxH)mm					
Dimension Body	1245 x 485 x 277	1205 x 725 x 330	1205 x 725 x 330	1205x725x330	1405x650x480
Pipe Size					
Inlet Tube Outer Diameter (inch)	5/8"		3/4"		
Outlet Tube Outer Diameter (inch)	5/8"		3/4"		
Drain Pipe (mm)	25				

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Accessories (Optional) :-

2-Way Valve station:

2 Way : On/off Type/ Modulating /PIBC.
(with Ball valves set & Copper fittings)



3-Way Valve station:

3Way : On/off Type/ Modulating /PIBC
(with Ball valves set & Copper fittings)



UV Lamps:

For air stream disinfection.



Condensate Drain Pump (For Hi- Walls):

Drain pumps are recommended for locations where drain point location is not close to unit.



Spares:

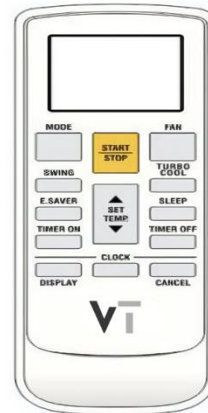
PCBs



Drain Pump (Cassette)



Cordless Remote



Service:

- ✓ **Standard Turnaround Time:**
"Our standard turnaround time for air conditioning service is typically 48-72 hours for Delhi NCR & 3-4 days for more than 250km site , depending on the complexity of the issue and parts availability."
- ✓ **Routine Maintenance:**
"Routine maintenance and service for will be in scope of HVAC contractors"
- ✓ **Parts Ordering:**
"In cases where parts are required, the turnaround time may extend to 5-7 business days, based on shipping and availability. And will be confirmed at time of service visit."
- ✓ **Service Follow-up:**
"Once our technician has assessed your units, we will provide a detailed estimate and expected turnaround time for repairs or replacement parts."

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Our Beliefs



Go hand in hand....



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