

# Vertiv™ CoolPhase Condenser

Outdoor Heat Rejection, OAC017-095 - OAV125-315, R513A



Vertiv™ CoolPhase Condenser delivers high performance, energy efficiency, and long-term reliability. Two families of Vertiv CoolPhase Condensers are compatible with the Vertiv™ CoolPhase Perimeter, PAM models range, offering enhanced flexibility and integration:

- OAC017-095 - single-circuit outdoor air-cooled condenser for R513A (A1, GWP=633), fin&tube plane coil and high-efficiency EC axial fans.
- OAV125-315 - dual-circuit, compact, V-shaped outdoor air-cooled condenser for R513A (A1, GWP=633), fin&tube or microchannel coil and high-efficiency EC axial fans with optional free cooling EconoPhase.



**Up to 33 kW**  
1 fan



**Up to 58 kW**  
2 fans



**Up to 95 kW**  
2 fans

## Lower refrigerant charge

Microchannel technology significantly reduces refrigerant charge compared to traditional Fin & Tube coils, lowering both environmental impact and operating costs.



**80-160 kW,**  
**Air cooled version**  
2 fans



**160-300 kW,**  
**Air cooled version**  
4 fans

## Reduced footprint

Vertiv CoolPhase Condensers, OAV range is specifically designed to minimize outdoor footprint in dual circuit systems, making 1:1 configuration possible. In EconoPhase versions, the pumped refrigerant system is fully integrated into the OAV condenser without need of additional devices.



**160-300 kW,**  
**EconoPhase version with**  
**embedded PRE, 2 fans**



**160-300 kW,**  
**EconoPhase version with**  
**embedded PRE, 4 fans**



## Vertiv™ CoolPhase Condenser at a glance

- OAC models, single circuit condensers, features Fin & Tube plane shape coils and EC fans
- OAV models are natively dual-circuit heat rejection units, available with Fin & Tube or microchannel Vshape coils, and equipped with high-performance EC fans
- OAV configurations are available in 2 versions: standard version, and the pumped refrigerant system version that enables free cooling operation through Vertiv's patented EconoPhase technology

## Technical specification

OAV MODEL		→	OAV125	OAV165	OAV255	OAV315
Max Airflow and Heat Rejection Capacity at input condition	Max Airflow	m3/h	40300	40300	81300	81300
	Total Heat Rejection Capacity	kW	173	173	347	347
Input conditions*	Power supply	V/p/Hz	400/3/50 (+N)			
	Refrigerant	Type	R513A			
	Coil design	Type	Microchannel			
	Outdoor air temperature	°C	35			
	Condensing Temp   Desuperheating   Subcooling	°C / K / K	50 / 20 / 5			
	Unit Configuration	Fans	Standard Fans			
	Design features	Refrigerating circuits	n°	2	2	2
EC Axial Fan - Draw through		n°	2	2	4	4
Capacity Modulation		%	Continuous from 20 to 100%			
Outdoor Length [L]		mm	2609	2609	2609	2609
Outdoor Width [W]		mm	1080	1080	2155	2155
Outdoor Height Standard / EconoPhase [H]		mm	1730 / 2315	1730 / 2315	1730 / 2315	1730 / 2315
Outdoor Weight Standard / EconoPhase		kg	420 / 460	420 / 460	780 / 820	780 / 820
System configurations	Air cooled	Availability	✓	✓	✓	✓
	Air cooled with Freecooling EconoPhase		✓	✓	✓	✓

OAC MODEL		→	OAC017	OAC033	OAC042	OAC*58	OAC*87	OAC095
Max Airflow and Heat Rejection Capacity at input condition	Max Airflow	m3/h	6330	7500	16700	16000	24000	22565
	Total Heat Rejection Capacity	kW	20	28.4	45.6	52.4	78.5	84.2
Input conditions*	Power supply	V/p/Hz	230/1/50 (+N)					
	Refrigerant	Type	R513A					
	Coil design	Type	Copper Pipe Aluminum Fin					
	Outdoor air temperature	°C	35					
	Condensing Temp   Desuperheating   Subcooling	°C / K / K	50 / 20 / 5					
	Unit Configuration	Fans	Standard Fans					
	Design features	Refrigerating circuits	n°	1	1	1	1	1
EC Axial Fan - Draw through		n°	1	1	2	2	3	3
Capacity Modulation		%	Continuous from 20 to 100%					
Outdoor Length [L]		mm	1054	1330	2330	2330	3330	3330
Outdoor Width [W]		mm	950	936	936	936	936	936
Outdoor Height Standard / EconoPhase [H]		mm	892	1113	1113	1113	1113	1113
Outdoor Weight Standard / EconoPhase		kg	35	86	119	127	182	202
System configurations	Air cooled	Availability	✓	✓	✓	✓	✓	✓
	Air cooled with Freecooling EconoPhase		-	-	-	-	-	-