

Medium Temperature Scroll

Parallel Racks



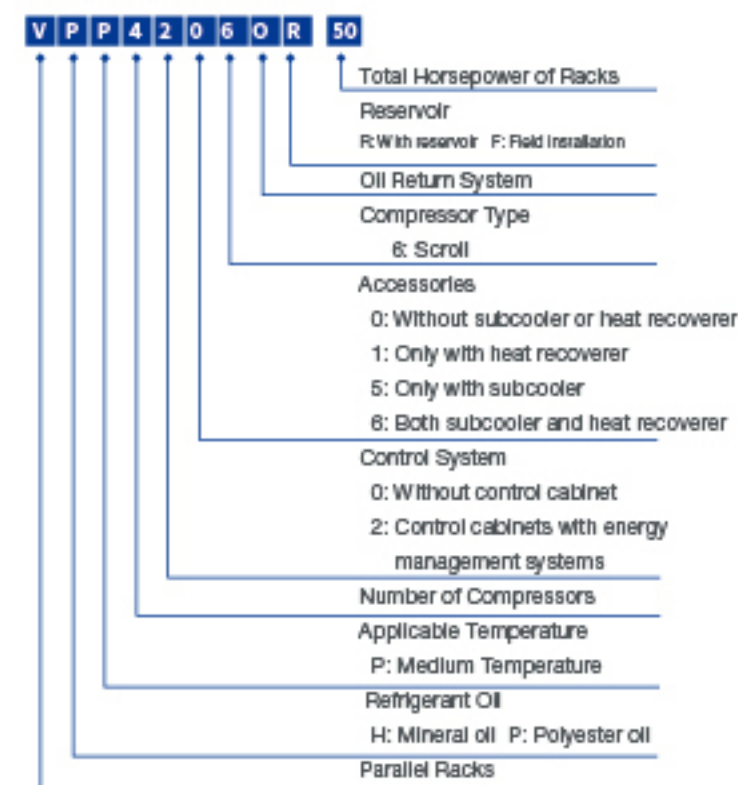
Customer Value

- Extensive application range, water cooled application and air cooled application
- Wide range of adjustable cooling capacity, reliable operation even under low frequency load;
- Silent racks, 8-10dBA lower than traditional Reciprocating racks;
- Full automatic control and remote control
- Compressor timing rotation control and long service life
- Compact design and small footprint

Product Features

- Non-proportional parallel design, racks adjusting range: 15% - 100%, compressor number up to 6 units
- Each branch is equipped with a Check Valve, Vibration eliminators, to prevent gas from flowing backward and reduce noise.
- Electronic oil level regulator is adopted to ensure reliability of oil return
- Controllers allow compressor cyclical operation to ensure service life of the racks
- Integrated framework design with compact structure

Naming Rule of Parallel Racks



Application

Working Conditions	Scroll Parallel Racks
	Medium Temperature
Refrigerant	R404A
Evaporating Temperature (°C)	-20 ~ +10

Scroll Parallel Racks Configuration (R404A)

No.	Type	Standard Options	Non-standard Options
1	Subcooler	x	√
2	Control system	With Dcool® controller electric box	With controller electric box (Danfoss, Casel, etc.)
3	Racks external pipes	Liquid drain, gas return, supply liquid and discharge	By-passes for supply liquid and gas return
4	Oil return system	Liquid drain, gas return, supply liquid and discharge	x
5	Reservoir	Vertical reservoir	Horizontal reservoir (Field installation only)
6	Condensing pressure control	x	1, Condensing pressure control switch 2, A0 system pressure control valve (cold region) optional, A6 valve needs field installation

Scroll Parallel Racks cooling Capacity Options (Air cooled Condenser)

Racks Model No.	Compressor	Evaporating Temperature							
		12 -15°C		15 -18°C		18 -5°C		22-0°C	
		Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)	Cooling Capacity Q (kW)	Power Consumption P (kW)
VPP3206OR-30	ZB76*3	43.8	24.45	53.25	24.66	64.2	24.87	76.2	25.08
VPP3206OR-35	ZB76*2+ZB114	49.9	28.95	61.2	29.09	74	29.23	88.2	29.42
VPP3206OR-40	ZB76+ZB114*2	56	33.45	69.15	33.52	83.6	33.59	100.2	33.76
VPP4206OR-45	ZB76*3+ZB114	64.5	37.1	78.96	37.31	95.4	37.52	113.6	37.78
VPP4206OR-50	ZB76*2+ZB114*2	70.6	41.6	86.9	41.74	105.2	41.88	125.6	42.12
VPP4206OR-55	ZB76+ZB114*3	78.7	46.1	94.85	46.17	115	46.24	137.6	46.46
VPP4206OR-60	ZB114*4	82.8	50.6	102.8	50.6	124.8	50.6	149.6	50.8
VPP5206OR-65	ZB76*2+ZB114*3	91.3	54.25	112.6	54.39	136.4	54.53	163	54.82
VPP5206OR-70	ZB76+ZB114*4	97.4	58.75	120.55	58.82	146.2	58.89	175	59.16
VPP5206OR-75	ZB114*5	103.5	63.25	128.5	63.25	156	63.25	187	63.5
VPP6206OR-80	ZB114*6	124.2	75.9	154.2	75.9	187.2	75.9	224.4	76.2

- Cooling capacity and input power listed are based on condensing temperature at 45°C, without liquid subcooling.
- The power wire for the compressor racks is three-phase 380V/50Hz, the power for the control operation is one-phase 220V/50Hz.
- If the compressor racks are to operate with different evaporating temperature or with too high/too low ambient temperature, please contact us.
- If you need water cooled rack, please contact our technical staffs.

Technical Parameters

Racks Model No	Dimension of Racks' External Pipes				External Dimensions			Max. Working Current	Weight	Machine Room Ventilation Rate	Reference Drawing
	Discharge DL	Suction SL	Liquid Pipe Inlet	Liquid Pipe Outlet	L	W	H	A	kg	m³/h	
VPP3206OR-30	35	54	35	35	2950	900	1950	96.84	970	3500	
VPP3206OR-35	35	67	35	35	2950	900	1950	110.16	980	4000	
VPP3206OR-40	35	67	35	35	2950	900	1950	123.48	990	4500	
VPP4206OR-45	35	67	35	35	3400	900	1950	136.8	1000	5000	
VPP4206OR-50	35	67	35	35	3400	900	1950	155.76	1120	5500	
VPP4206OR-55	42	76	42	42	3400	900	1950	169.08	1130	6000	
VPP4206OR-60	42	76	42	42	3400	900	1950	182.4	1140	6500	
VPP5206OR-65	42	76	42	42	3900	900	1950	201.36	1270	7000	
VPP5206OR-70	42	80	42	42	3900	900	1950	214.68	1280	7500	
VPP5206OR-75	42	80	42	42	3900	900	1950	228	1290	8000	
VPP5206OR-90	42	80	42	42	4400	900	1950	273.6	1350	9500	

- The dimensions of the racks' external pipes are for standard racks and can be customized.
- Ball valves and headers on the pipeline can be customized.
- If more than one Parallel racks are used in the machine room, it is necessary to calculate the total ventilation rate.
- If you need water cooled rack, please contact our technical staffs.