



- Oil Sealed Rotary VaneDry Rotary VaneHook & Claw Vacuum & Pressure
- Vacuum Systems



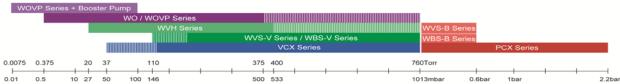
COAIRE vacuum products have provided solutions for a multitude of industrial applications.



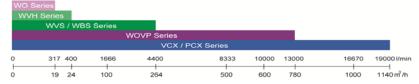


Product Ranges:

Operating Range [mbar abs]



Suction capacity [m³/h , l/min]



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ISO 9001:2015/ISO 14001:2015



Oil sealed Rotary Vane Vacuum Pump

Operating Principle:

COAIRE's Oil Sealed Rotary Vane Pumps operate according to the rotary vane principle. The rotor is eccentrically positioned in the cylinder and has the slots for vane sliding. The centrifugal forces when rotates push the vanes towards wall of the cylinder through the slots of the rotor. The gas will be sucked in through a built-in anti suck back valve that prevents the pump from rotating backward at standstill, and goes into the cylinder. The gas will be compressed and pushed out through the exhaust opening located between the pumps housing and oil sump. The oil will be fed into the pump module from the oil sump for sealing and lubrication by differential pressure between pump module and oil sump. The discharged oil as a mist with gas will be collected through the oil separator(s) in the upper part of oil sump. The collected oil will be drawn into the pump inlet side for re-circulation by the pressure difference between suction and pressure side through a float valve (F version) or through the return line (L version). Gas Ballast (in case equipped) will be working by sucking ambient air into the cylinder for prevention of accumulation of condensates(water) from process gas.

Versions:

WOVP Series are designed for reliability in a multitude of applications. Available in three(3) versions to the pumps, each pump is designed to meet your vacuum needs.

"L" version: for medium vacuum – 10~20 mbar for continuous operation with oil return line. "NM" version: for medium deeper vacuum - 2 mbar for continuous operation with oil return line. "F" version: for deeper vacuum – 0.1 mbar- Suitable for continuous operation with float valve system.

For dimension/curve information, please see each page of the model.

Features:

- Compact Design Reliability & Durability Easy to maintain and operate
- Simple Installation Air Cooled, No water required
- Direct Drive Design No Belts required
- Integral Exhaust Filter Discharge air 99% oil free
- Quite Operation

Applications:

- Food Processing, Packaging
- Plastic Molding, PCB, Hot press, Rubber Press Molding, Metallurgy.
- Vacuum Lifting, Wood Carving
- Hospitals & Clinics
- Laboratories,

Safety:

- All WOVP series has obtained CE Mark.



Oil sealed Rotary Vane Vacuum Pump

Standard Equipment:

- Composite Vane
- TEFC High Efficiency Motor
- Oil Level Sight Glass
- Wire Mesh Inlet Filter Screen
- Anti-Suck back Valve
- Spin on Oil Filter (except WOVP-0020~0040)
- Vibration Isolator
- Gas Ballast Valve (F version only) Optional
- Exhaust Pressure Gage Optional
- Level Switch (Port)-Optional
- Temperature Switch (Port)-Optional

Technical data

Models			20	30	40	60	80	130	200	320	350	430	500	600	800	1000	1200	1500
	60Hz		12	18	24	36	48	78	120	192	210	258	300	360	505	600	780	NA
Displace-ment	50Hz	m³/h	10	15	20	30	40	65	100	160	175	215	250	300	420	500	660	750
	F or N Type		NA	NA	NA	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5
	NM Type		2	2	2	NA	NA	NA	NA	NA	NA	NA	A	NA	NA	NA	NA	NA
End- Vacuum	L Type	mbar	20	20	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	10	10	10
		60Hz	0.4	0.75	0.9	1.1	1.5	2.2	3	3.7	5.5	5.5	7.5	8.6	15	15	18.5	NA
Motor (3Ph)	IEC(Kw)	50Hz	0.4	0.55	0.75	0.9	1.1	1.5	2.2	3.7	5.5	5.5	5.5	7.5	11.25	11.25	15	18.5
	NEMA(Hp)	60Hz	NA	N/A	N/A	2	2	3	5	5	7.5	7.5	10	11.5	15	20	25	NA
Motor (1Ph)	IEC(Kw)	50/60Hz	0.4	0.75	0.9	1.5	1.5	NΑ	N/A	N/A	N/A	N/A	N/A	NΑ	N/Α	N/A	N/A	NΑ
Revolution		60Hz	1740	1740	3480	1740	1740	1740	1740	1740	1740	1740	1740	1740	1160	1160	1160	NA
Tto Volution	RPM	50Hz	1450	1450	2870	1450	1450	1450	1450	1450	1450	1450	1450	1450	980	980	980	1450
Noise		60Hz	59	60	62	67	67	68	68	75	77	77	77	78	78	78	79	79
140100	dB(A)	50Hz	57	58	60	64	64	65	65	72	74	74	74	75	76	76	77	77
Operating Temp.	${\mathbb C}$		77	80	85	76	78	85	85	85	85	85	85	85	80	82	80	82
Oil Capacity	Ltr		0.5	0.5	0.5	1.4	1.4	2.5	2.7	7	7	7	7	7	19	19	19	19
Connections	G(BSP) or	Inlet	1/2"	1/2"	1/2"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	2"	2"	2"	2"	3"	3"	3"	3"
Connections	NPT	Outlet	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	1-1/4"	2"	2"	2"	2"	2"	3"	3"	3"	3"
Weight	kg (w ith motor)		20	22	20	47	53	66	75	124	164	145	184	188	504 /491*	544 /531*	703 /582*	535
			Weight	can be	varied	upon r	notor s	pecific	Above	weigh	ts are	v/o oil	* for 5	0Hz m	notor			



Oil sealed Rotary Vane Vacuum Pump

WOVP-0020, 0030 & 0040

Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass(1), Exhaust cover Silencer

Optional Equipment: Additional Oil level sight Glass, Exhaust Pressure Gauge, Exhaust Cover(threaded).

Models			20	30	40
	60Hz		12	18	24
Displacement	50Hz	m³/h	10	15	20
	NM Type		2	2	2
End Vacuum	L Type		20	20	20
		60Hz	0.4	0.75	0.9
Motor (3Ph)	IEC(Kw)	50Hz	0.4	0.55	0.75
	NEMA(Hp)	60Hz	N/A	N/A	N/A
Motor(1Ph)	IEC(Kw)	50/60Hz	0.4	0.75	0.9
		60Hz	1740	1740	3480
Revolution	RPM	50Hz	1450	1450	2870
Noise		60Hz	59	60	62
Noise	dB(A)	50Hz	57	58	60
Operating Temp.	$^{\circ}$		77	80	85
Oil Capacity	Ltr		0.5	0.5	0.5
Connections	C(BSB) or NDT	Intake	1/2"	1/2"	1/2"
Connections	G(BSP) or NPT	Exhaust	1-1/4"	1-1/4"	1-1/4"
W eight	kg (with motor)		20	22	20



Oil sealed Rotary Vane Vacuum Pump

WOVP-060 & 080

Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve (N & F Only), Spin-on Oil Filter.

Optional Equipment: Exhaust Pressure Gauge, Level Switch, and Heater

Models			60	80
	60Hz		36	48
Displacement	50Hz	m³/h	30	40
End- Vacuum	F Type	mbar	0.1	0.1
		60Hz	1.1	1.5
Motor (3Ph)	IEC(Kw)	50Hz	0.9	1.1
	NEMA(Hp)	60Hz	2	2
Motor(1Ph)	IEC(Kw)	50/60Hz	1.5	1.5
Revolution		60Hz	1740	1740
Ne volution	RPM	50Hz	1450	1450
Noise		60Hz	67	67
NOISE	dB(A)	50Hz	64	64
Operating Temp.	$^{\circ}$ C		76	78
Oil Capacity	Ltr		1.4	1.4
Connections	G(BSP) or NPT	Intake	1-1/4"	1-1/4"
Connections	3(DOI) 01 141 1	Exhaust	1-1/4"	1-1/4"
Weight	kg (with mo	tor)	47	53



Oil sealed Rotary Vane Vacuum Pump

WOVP-120 & 200

Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve (N & F Only), Spin-on Oil Filter.

Optional Equipment: Exhaust Pressure Gauge, Level Switch, and Heater

Models			120	200
	60Hz		75	120
Dis placement	50Hz	m³/h	63	100
End- Vacuum	F Type	mbar	0.1	0.1
		60Hz	2.2	3
Motor (3Ph)	IEC(Kw)	50Hz	1.5	2.2
	NEMA(Hp)	60Hz	3	5
Revolution		60Hz	1740	1740
Nevolution	RPM	50Hz	1450	1450
Noise		60Hz	68	68
140136	dB(A)	50Hz	65	65
Operating Temp.	${\mathbb C}$		85	85
Oil Capacity	Ltr		2.5	2.7
Connections	C(PSD) or NDT	Intake	1-1/4"	1-1/4"
Connections	G(BSP) or NPT	Exhaust	1-1/4"	1-1/4"
Weight	kg (with mo	kg (w ith motor)		75



Oil sealed Rotary Vane Vacuum Pump

WOVP-320 & 430

Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve, Built-in Float Valve Assembly for oil return, Spin-on Oil Filter.

Optional Equipment: Exhaust Pressure Gauge, Oil Level Switch (Port), Temperature Switch (Port), Heater and Water Cooler.

Models			320	430
	60Hz		192	258
Displacement	50Hz	m³/h	160	215
End- Vacuum	F Type	mbar	0.1	0.1
		60Hz	3.7	5.5
Motor (3Ph)	IEC(Kw)	50Hz	3.7	5.5
	NEMA(Hp)	60Hz	5	7.5
Revolution		60Hz	1740	1740
Revolution	RPM	50Hz	1450	1450
Noise		60Hz	75	77
Noise	dB(A)	50Hz	72	74
Operating Temp.	${\mathbb C}$		85	85
Oil Capacity	Ltr		7	7
Connections	C/RSD) or NDT	Intake	2"	2"
Connections	G(BSP) or NPT	Exhaust	2"	2"
Weight	kg (w ith mo	tor)	124	145



Oil sealed Rotary Vane Vacuum Pump

WOVP-350



Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven

- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve, Built-in Float Valve Assembly for oil return, Spin-on Oil Filter.

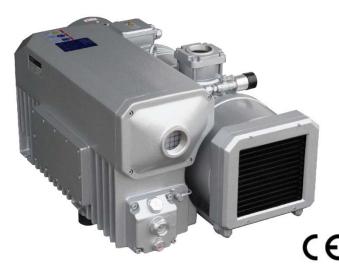
Optional Equipment: Exhaust Pressure Gauge, Oil Level Switch (Port), Temperature Switch (Port), Heater and Water Cooler.

Models			350
	60Hz		210
Displacement	50Hz	m³/h	175
End- Vacuum	F Type	mbar	0.1
		60Hz	5.5
Motor (3Ph)	IEC(Kw)	50Hz	5.5
	NEMA(Hp)	60Hz	7.5
Revolution		60Hz	1740
Ne volution	RPM	50Hz	1450
Noise		60Hz	77
NOISE	dB(A)	50Hz	74
Operating Temp.	${\mathbb C}$		85
Oil Capacity	Ltr		7
Connections	G(BSP) or NPT	Intake	2"
Connections		Exhaust	2"
Weight	kg (w ith m	otor)	164



Oil sealed Rotary Vane Vacuum Pump

WOVP-500 & 600



Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven

- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- · Quite Operation.

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve (N, F & NM Only), Built-in Float Valve Assembly for oil return, Spin-on Oil Filter.

Optional Equipment: Exhaust Pressure Gauge, Oil Level Switch (Port), Temperature Switch (Port), Heater and Water Cooler.

Models			500	600
	60Hz		300	360
Displacement	50Hz	m³/h	250	300
End Vacuum	F Type	mbar	0.1	0.1
		60Hz	7.5	8.6
Motor (3Ph)	IEC(Kw)	50Hz	5.5	7.5
	NEMA(Hp)	60Hz	10	11.5
Revolution		60Hz	1740	1740
Ne volution	RPM	50Hz	1450	1450
Noise		60Hz	77	78
NOISE	dB(A)	50Hz	74	75
Operating Temp.	${\mathbb C}$		85	85
Oil Capacity	Ltr		7	7
Connections	G(BSP) or NPT	Intake	2"	2"
Connections	G(DOF) OF NET	Exhaust	2"	2"
Weight	kg (w ith mo	tor)	184	188



Oil sealed Rotary Vane Vacuum Pump

WOVP-800,1000 &1200





Water Required.Direct Drive – C-Face Design requires

operate.

no belts

Simple Installation - Air Cooled No

Compact Design - Reliability & Durability – Easy to maintain and

 Integral Exhaust Filter – Discharge Air 99.9% Oil Free

Quite Operation.

CE

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve, Spin-on Oil Filter.

Optional Equipment: Exhaust Pressure Gauge, Oil Level Switch (Port), Temperature Switch (Port), Heater Water Cooler, and Float Valve Assembly for oil return,

Models			800	1000	1200
	60Hz		505	600	780
Displacement	50Hz	m³/h	420	500	660
	F or N version		0.1	0.1	0.1
End Vacuum	L version	mbar	10	10	10
		60Hz	15	15	18.5
Motor (3Ph)	IEC(Kw)	50Hz	11.25	11.25	15
	NEMA(Hp)	60Hz	15	20	25
Revolution		60Hz	1160	1160	1160
Nevolution	RPM	50Hz	980	980	980
Noise		60Hz	78	79	79
NOISE	dB(A)	50Hz	76	77	77
Operating Temp.	${\mathbb C}$		80	82	80
Oil Capacity	Ltr		19	19	19
Connections	G(BSP) or NPT	Intake	3"	3"	3"
Connections	G(DOF) OF NET	Exhaust	3"	3"	3"



Oil sealed Rotary Vane Vacuum Pump

WOVP-1500



Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven

- Compact Design Reliability & Durability - Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive C-Face Design requires no belts
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

C

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass, Gas Ballast Valve, Spin-on Oil Filter, Exhaust Pressure Gauge.

Optional Equipment: Oil Level Switch (Port), Temperature Switch (Port), Heater, Water Cooler, and Float Valve Assembly for oil return,

Models			1500
Displacement		M3/hour	750
End Vacuum	F or N version		0.5
End Vacuum	L version	mbar	10
Motor		50Hz	18.5
Revolution		50Hz	1500
Noise		50Hz	79
Operating Temp.	${\mathbb C}$		85
Oil Capacity	Ltr		19
Cannactions	C/RCR) or NRT	Intake	3"
Connections	G(BSP) or NPT	Exhaust	3"
Weight	kg (with motor)	535	



WO SERIES

Oil sealed Rotary Vane Vacuum Pump

WO-10, 12 & 20



Single Stage, Oil Re-circulating, Air Cooled, and Direct Driven

- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled No Water Required.
- Direct Drive Compact Size
- Integral Exhaust Filter Discharge Air 99.9% Oil Free
- Quite Operation.

CE

Standard Equipment: Composite Vane, Wire mesh Inlet Filter Screen, Vibration Isolator, TEFC High Efficiency Motor, Anti-Suck Back Valve, Oil Level Sight Glass(1), Exhaust Cover(threaded).

Optional Equipment: Additional Oil level sight Glass, Exhaust Filter Pressure Gauge.

Models			10	12	20
	60Hz		10	12	19
Displacement	50Hz	m³/h	8	10	16
End Vacuum	Float Type		0.5	2	2
Motor (1 & 3Ph)	Kw	50/60Hz	0.3	0.3	0.6
Revolution		60Hz	1800	3600	3600
Revolution	RPM	50Hz	1500	3000	3000
Noise		60Hz	60	63	64
Noise	dB(A)	50Hz	57	59	60
Operating Temp.	${\mathbb C}$		77	80	85
Oil Capacity	Ltr		0.3	0.3	0.3
Connections	G(BSP) or	Intake	1/2"	1/2"	1/2"
	`NPT [´]	Exhaust	1/2"	1/2"	1/2"
Weight	Kg (wit	h motor)	16	16	18



WVS & WBS SERIES

Dry Rotary Vane Vacuum Pump

Operating Principle:

COAIRE's Dry Rotary Vane Pumps operate according to the rotary vane principal. The rotor is eccentrically positioned in the pump cylinder and has the machined slots for sliding of the vanes. The centrifugal forces of the rotation pushes vanes out towards the wall of the cylinder. The gas enters vacuum pump through the inlet manifold (Air filter) and is compressed and pushed out through the outlet manifold (built-in silencer) installed on pump module. The regulators installed on manifold are adopted for regulating vacuum or pressure level constantly. Carbon material vane is employed for self-lubrication.

■Versions:

WVS/WBS Series are designed for reliability in a multitude of applications. Available in various combination versions to the pumps, each pump is designed to meet your vacuum and pressure needs.

- WVS (Single Pump Module)
 - 1) V version Vacuum Operation only
 - 2) VB version Vacuum and Blow Operation
- WBS (Dual Pump Modules)
 - 1) V version Vacuum operation on each module independently
 - 2) VV version Vacuum operation only double capacity by combining two modules
- 3) VB version Vacuum or Blow operation on each module
- 4) VBVB version Vacuum and Blow operation on each module
- 5) B version Blow operation only on each module independently
- 6) BB version Blow operation only double capacity by combining two modules

■Features:

- Single Stage, Carbon Vane Rotary, Air-Cooled.
- Compact Design Reliability & Durability Easy to maintain and operate
- Simple installation Air Cooled No water Required.
- Quite Operation
- Oil free

■Applications:

WVS / WBS series are ideal for use of following applications: Printing, Book Binding, Packing, Forming, Automation, Absorption and many other industrial applications.



Dry Rotary Vane Vacuum Pump

Standard Equipment:

- Carbon Vanes
- TEFC High efficiency Motor
- Vacuum Regulator & Gauge
- Vibration Isolators
- Built-in particulate Filter & Silencer
- Pressure Regulator & Gauge (Optional)

Technical data

For dimension/curve information, please see each page of the model.

Model			w	VH				wvs								WBS			
Model	s 		3	5	3 / 3H	5 / 5H	6 / 6H	8 / 8H	9 / 9H	10 / 10H	30A 50A 60A 80A 80B 85B 90B				95B	100B			
Diamines ment	60Hz	l/min	260	400	280	480	685	1115	1350	2200	280x2	480x2	685x2	1115,0	1115,0	1350+ 1115	1250,2	1350+ 2200	2200x2
Displace-ment	50Hz	l/min	220	330	235	405	575	935	1130	2200	235x2	405x2	575x2	1115X2	1115X2	1350+1115	135082	1350+ 2200	2200X2
End- Vacuum	mm F	lgG	72	24	610			650		670		•	•			650	•	•	
Normal Operating			400	70.4			450.10			440 4000					450				110
Vacuum	mm F	igG	400-	~724			450 / 6	500		410 / 600					450				410
Normal Operating	14.61	•														•			
Pressure	Kgf/c	m2					0.6			0.5						0.6			
Motor	Kw	,	0.4	0.75	0.4	0.75	1.5	1.5(6P)	2.2(6P)	4	0.75	1.5	2.2	4	4	4	5.5	5.5	7.5
D DDM	60Hz	rpm	1430	1300	1740	1740	1740	1160	1160	1100	1740	1740	1740	4400	4400	4400	4400	4400 : 4400	
Pump RPM	50Hz	rpm	1190	1080	1450	1450	1450	980	980	1100	1450	1450	1450	1160	1160	1160	1160	1160+ 1100	1100
Operating Amb.Temp	°C										0	~ 40 °C	•				•		
Connections	Intake(G	S-Bsp)	3/	8"		3/4"		1		1-1/4"	3/4" 1" 1"-1-1/4"			1" -1-1/4"	1-1/4"				
Driven			T-E	Belt			Coupli	ng		V-Belt	T-Belt V-Belt								
Weight	kg (w/ n	notor)	22	33	24	33	44	73	97	120	40	56	75	115	129	150	165	200	235

Weight can be varied upon motor makers and its specipication.



Dry Rotary Vane Vacuum Pump

WVH-3,5



Single Stage, Carbon Vane Rotary, Air Cooled,

- Compact Design Reliability & Durability Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- Belt Drive

Standard Equipment: Carbon Vanes, Built-in Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Inlet Filter

MOI	DEL		WVH-3	WVH-5		
	60Hz	l/min	260	400		
Displacement	50Hz	l/min	220	330		
End Vacuum	mm H	gG	724	724		
Normal Operating Vacuum	mm H	gG	400~724	400~724		
Motor	Kw		0.4	0.75		
Pump Revolution	60Hz	rpm	1430	1300		
Fullip Revolution	50Hz	rpm	1190	1080		
Operating Amb.Temp.	$^{\circ}$		0 ~ 40 ℃			
Connections	Intake(G-Bsp)		3/8"	3/8"		
Driven			В	elt		
Weight	kg (with I	motor)	22	33		



Dry Rotary Vane Vacuum Pump

WVS-3, 5& 6, 3H, 5H & 6H





- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required Oil Free
- Quite Operation.
- Direct Coupling Drive

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

MODE	EL .		WVS-3 / 3	H WVS	-5 / 5H	WVS-6 / 6H	
	60Hz	l/min	280	4	80	685	
Displacement	50Hz	l/min	235	4	05	575	
End Vacuum	mr	n HgG	610	6	50	650	
Normal Operating Vacuum	mr	n HgG	450 / 600	450	/ 600	450 / 600	
Normal Operating Pressure	Kg	gf/cm2	0.6	C	0.6	0.6	
Motor		Kw	0.4	0	.75	1.5	
Pump Revolution	60Hz	rpm	1740	17	740	1740	
Fullip Revolution	50Hz	rpm	1450	14	450	1450	
Operating Amb.Te mp.		${\mathbb C}$		0 ~ 40 ℃			
Connections	Intak	e(G-Bsp)	3/4"	3/4"		3/4"	
Driven		,		COL	ıpling		
Weight	kg (w	ith motor)	24	33			



Dry Rotary Vane Vacuum Pump

WVS-8 & 9,8H & 9H

Single Stage, Carbon Vane Rotary, Air Cooled,



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- Direct Coupling Drive

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

MO	DEL		WVS-8	WVS-8H	WVS-9	WVS-9H
	60Hz	l/min	1115	1115	1350	1350
Displacement	50Hz	l/min	935	935	1130	1130
End Vacuum	mm	HgG	650	740	650	740
Normal Operating Vacuum	mm	HgG	450	600	450	600
Normal Operating Pressure	Kgf/	cm2	0.6	0.7	0.6	0.7
Motor	K	W	1.5(6P)	1.5(6P)	2.2(6P)	2.2(6P)
Pump Revolution	60Hz	rpm	1160	1160	1160	1160
i ump ite voiduon	50Hz	rpm	980	980	980	980
Operating	(S		0 ~4	10°C	
Connections	Intake(G-Bsp)	1"	1"	1"	1"
Driven				Via Co	oupling	
Weight	kg (with	motor)	73	73	97	97



Dry Rotary Vane Vacuum Pump

WVS-10A & 10AH

Single Stage, Carbon Vane Rotary, Air Cooled,



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- Direct Coupling Drive

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

MODE	L		WVS-10A	WVS-10AH	
	60Hz	l/min	2350	2350	
Displacement	50Hz	l/min	1960	1960	
End Vacuum	mm	HgG	670	740	
Normal Operating Vacuum	mm	HgG	410	600	
Normal Operating Pressure	Kgf	/cm2	0.5	0.7	
Motor	k	(w	4	4	
Dump Povolution	60Hz	rpm	1175	1175	
Pump Revolution	50Hz	rpm	980	980	
Operating Amb. Temp.	,	$^{\circ}$ C	0 ~ 40 ℃	0 ~ 40 ℃	
Connections	Intake	(G-Bsp)	1-1/4"	1-1/4"	
Driven			Via C	Coupling	
Weight	kg (wit	h motor)	120	120	



Dry Rotary Vane Vacuum Pump

WVS-10 & 10H





- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- V Belt Drive

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

MODE	:L		WVS-10	WVS-10H
	60Hz	l/min		
Displacement	50Hz	l/min	2200	2200
End Vacuum	mm	HgG	670	740
Normal Operating Vacuum	mm HgG		410	600
Normal Operating Pressure	Kgf	/cm2	0.5	0.7
Motor	k	(w	4	4
Pump Revolution	60Hz 50Hz	rpm rpm	1100	1100
Operating Amb. Temp.		${\mathbb C}$	0 ~ 40 ℃	0 ~ 40 ℃
Connections	Intake	(G-Bsp)	1-1/4"	1-1/4"
Driven			V-Belt	V-Belt
Weight	kg (wit	h motor)	120	120



WBS SERIES

Dry Rotary Vane Vacuum Pump

WBS-30A, 50A, 60A & 80A

Single Stage, Carbon Vane Rotary, Air Cooled,



- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- Timing Belt Drive
- Ideal for Vacuum and Blow Operation

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

	MODEL		WBS-30A	WBS-50A	WBS-60A	WBS-80A
Displaceme	60Hz	l/min	280x2	480x2	685x2	
nt	50Hz	l/min	235x2	405x2	575x2	1115x2
End	mm	HaG	650	650	650	650
Vacuum	mm HgG		030	030	030	030
Normal						
Operating	mm	HgG	450	450	450	450
Vacuum						
Normal						
Operating	Kgf/	cm2	0.6	0.6	0.6	0.6
Pressure						
Motor	K	(w	0.75	1.5	2.2	4
Pump	60Hz	rpm	1740	1740	1740	1740
Revolution	50Hz	rpm	1450	1450	1450	1450
Operating						
Amb.Temp.	c	C		0 ~ 4	40 ℃	
Connection						
s	Intake((G-Bsp)	3/4"	3/4"	3/4"	1"
Driven		T-Belt T-Belt		T-Belt	T-Belt	T-Belt
Weight	kg (with	n motor)	44	56	75	115



WBS SERIES

Dry Rotary Vane Vacuum Pump

WBS-80B, 85B, 90B, 95B &100B



Single Stage, Carbon Vane Rotary, Air Cooled,

- Compact Design Reliability & Durability – Easy to maintain and operate.
- Simple Installation Air Cooled, No Water Required – Oil Free
- Quite Operation.
- V Belt Drive
- Ideal for Vacuum and Blow Operation

Standard Equipment: Carbon Vanes, Built-in particulate Filter & Silencer, Vibration Isolators, Vacuum gage and Regulator, TEFC High Efficiency Motor

Optional Equipment: Pressure Gauge & regulator for Blow operation

			WBS-80B	WBS-85B	WBS-90B	WBS-95B	WBS-100B
	60Hz	l/min					
Displace ment	50Hz I/min		1115x2	1350+1115	1350x2	1350+2200	2200x2
End Vacuum	mm	HgG	650	650	650	650	650
Normal			450	450	450	450	440
Operating	mm	HgG	450	450	450	450	410
Vacuum							
Normal							
Operating	Kgf/	cm2	0.6	0.6	0.6	0.6	0.6
Pressure							
Motor	K	W	4	4	5.5	5.5	7.5
Pump	60Hz	rpm					
Revolution	50Hz	rpm	1160	1160	1160	1160+ 1100	1100
Operating							
Amb.Temp.	9	С			0 ~ 40 ℃		
Connections	Intake(G-Bsp)	1"	1"	1"	1" -1-1/4"	1-1/4"
Driven			V-Belt	V-Belt	V-Belt	V-Belt	V-Belt
Weight	kg (with	n motor)	129	150	165	200	235



VCX-B SERIES

Claw Vacuum Pump

VCX-60, 100



Dry Running - Oil Free - Contact Free Design

- Simple Modular Construction
- Air cooled & Direct Driven
- Low maintenance No wear
- **High Efficiency Continuous Duty**

Applications:

Packaging, CNC Routing, Wood Works, Pneumatic Conveying, Holding & Lifting, Pick and Place, Medical & Lab., Plastics Industries, Central Vacuum Systems.

Safety: CE certified (DOC)



General Description:

The VCX-B Series pumps are dry contact-less vacuum pumps with modular constructions consisting of compartments: pumping and gear chambers are separated by using labyrinth seals., As two claws rotate in opposite direction, the air will be sucked in the pumping chamber, compressed and discharged under pressure. In gear chamber, two gears for synchronizing of claws rotation will be placed with appropriate oil lubrication. A built in antisuck back valve installed in inlet flange will prevent the air from flowing back into the vacuum chamber when the pump is shutdown. The pumps are directly driven by a flanged motor via a coupling.

Model		VCX 60	VCX 100				
M3/ Hour	60Hz	72	120				
WS/ Hour	50Hz	60	100				
Ulti. Va. Max.	Torr	722 Torr gage	(50mbar abs)				
Ulti. Va. Conti.	Torr	685	640				
Kw	60Hz	1.5	2.6				
ΝW	50Hz	1.1	2.2				
RPM	60/50Hz	3450	3450/2850				
Voltage Available		208~230/460V, 220~240 /380~420V, 400/690V					
dR(A) Avorage	60Hz	80	77				
dB(A), Average	50Hz	78	76				
Oil Capa (Gear box)	Ltr	0.6	0.75				
Inlet / Outlet Conn.	**BSP(G)	1"	1-1/2"				
L* x W x H (mm)	60Hz	758x321x461	720x548x399				
L X VV X H (IIIIII)	50Hz	736x321x461	709x548x399				
Amb. Operating Temp.	(°C)	5°C ~	-40°C				
Anney *Maight (Kg)	60Hz	60	111				
Approx. *Weight (Kg).	50Hz	55	106				
Accessories	Non Re	turn Valve, Vacuum Regul	ator, Exhaust Silencer				

Note: 1) * Length varies to motor mfg 2) **NPT threads available upon request



VCX SERIES

Claw Vacuum Pump

VCX- 155, 255, 305, 405 & 515



Dry Running - Oil Free - Contact Free Design

- Simple Modular Construction
- Air cooled & Direct Driven
- Low maintenance No wear
- High Efficiency Continuous Duty

Applications:

Packaging, CNC Routing, Wood Works, Pneumatic Conveying, Holding & Lifting, Pick and Place, Medical & Lab., Plastics Industries, Central Vacuum Systems.

Safety: CE certified (DOC)



General Description:

The VCX Series pumps are dry contact-less vacuum pumps with modular constructions consisting of compartments: pumping and gear chambers are separated by using labyrinth seals., As two claws rotate in opposite direction, the air will be sucked in the pumping chamber, compressed and discharged under pressure. In gear chamber, two gears for synchronizing of claws rotation will be placed with appropriate oil lubrication. A built in antisuck back valve installed in inlet flange will prevent the air from flowing back into the vacuum chamber when the pump is shutdown. The pumps are directly driven by a flanged motor via a coupling.

Specifications:

Model		VCX 155	VCX 255	VCX 305	VCX 405	VCX 515
M3/ Hour	60Hz	180	300	360	480	600
WIS/ Hour	50Hz	150	250	250 300		500
Ulti. Va. Max.	Torr		722.5 To	rr gage (50m	bar abs)	
Ulti. Va. Conti.	Torr	647.5		6	10	
Kw	60Hz	3.4	5.5	6.6	9	11
rvv	50Hz	2.8	4.3	5.5	7.5	9
RPM (motor)	60/50Hz			3450 / 2850		
Voltage Available		208~	230/460V, 22	0~240 / 380~	420V, 400/69	0V
dB(A), Max	60Hz	77	80	80	80	82
+- 3 tolerance	50Hz	73	78	78	78	80
Oil Capa (Gear box)	Ltr	0.5	0	.9	1	.8
Inlet / Outlet Conn.	**BSP(G)	1-1/2"	2		3	3"
WxH (mm)		422 x 562	501 x 685	501 x 685	586 x 695	586 x 695
I * (mm)	60Hz	862	961	975	1105	1291
L* (mm)	50Hz	837	961	975	1065	1120
Amb. Operating Temp.	(°C)			5°C ~40°C		
Accessories	N	Ion Return Va	ılve, Vacuum	Regulator, Ex	haust Silence	er

Note: 1) * Length varies to motor mfg 2) **NPT threads available upon request



VCX SERIES

Claw Vacuum Pump

VCX - 1005



Dry Running - Oil Free – Contact Free Design

- Simple Modular Construction
- Air cooled & Direct Driven
- Low maintenance No wear
- High Efficiency Continuous Duty

Applications:

Packaging, CNC Routing, Wood Works, Pneumatic Conveying, Holding & Lifting, Pick and Place, Medical & Lab., Plastics Industries, Industrial Central Vacuum Systems.

CE certified

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General Description:

The VCX Series pumps are dry contact-less vacuum pumps with modular constructions consisting of compartments: pumping and gear chambers are separated by using labyrinth seals. As two claws rotate in opposite direction, the air will be sucked in the pumping chamber, compressed and discharged under pressure. In gear chamber, two gears for synchronizing of claws rotation will be placed with appropriate oil lubrication. The pumps are directly driven by a flanged motor via a coupling. Configured with two silencers suitable for compact installation space. The 4" aluminum check valve for anti suck back and inlet filter (flanged) can be supplied separately. Ideally suited to use with Frequency Controlled Drives for energy saving.

Model		VCX 1005				
M2 / Hour (ofm)	60Hz	1140 (670cfm)				
M3 / Hour (cfm)	50Hz	950 (558cfm)				
Ultimate Va. Max.	Torr (mbar a)	722.5 (50mbar a)				
Ultimate Va. Continuous	Torr	610 (200mbar a)				
K(Up)	60Hz	22 (30Hp)				
Kw(Hp)	50Hz	18.5 (25Hp)				
RPM	60/50Hz 3450/2850					
Voltage Available		220~240/380~420V x 50/60Hz, 400/690Vx 50Hz, 208~230/460V x 60Hz				
dB(A), Max	60Hz	85				
+- 3 tolerance	50Hz	82				
Oil Capacity (Gear box)	Ltr	2.8				
Inlet / Outlet Connection	Flange	DN 100 PN6 / DN100 PN10				
Amb. Operating Temp.	(°C)	5~40				
Accessories	Non Return Valve, Vacuum Regulator, Exhaust Silencer					



PCX-IF SERIES

Claw Compressors

PCX-60, 100



Dry Running - Oil Free - Contact Free Design

- **Simple Modular Construction**
- Air cooled & Direct Driven
- Low maintenance No wear
- **High Efficiency Continuous Duty**

Applications:

Transport, Pneumatic Conveying, Environmental systems, Air Sparging Applications, Fishing Farm, Central Pressure System.

Safety: CE certified (DOC)



General Description:

The PCX-IF Series compressors are identical in internal construction to VCX pump, but are outfitted with different inlet and outlet accessories to allow for operation as a compressor. For reduction of noise, inlet silencer is installed in inlet side. For a protection of overload, a pressure safety valve or regulating valve is installed in exhaust side. The compressors are directly driven by a flanged motor via a coupling.

Specifications:

Model		PCX 60		PCX 100				
M2/ Harry	60Hz	68		120				
M3/ Hour	50Hz	56	100					
Dunna Comti Dan	60Hz	2	~	1.4	2.2			
Press. Conti., Bar	50Hz	2	0.8	1.4	2.2			
Kw	60Hz	3.6	~	4.8	6.5			
r.w	50Hz	3	3	4	5.5			
RPM - 60/50Hz	RPM		3450 / 2850					
Voltage, Available	V	208~230/460	V, 220~240 /	380~420V, 4	00/690V			
dB(A), Max	60Hz	79	83					
+- 3 tolerance	50Hz	78		81				
Oil Capa (Gear box)	Ltr	0.6		0.75				
Inlet / Outlet Conn.	**BSP(G)	1"		1-1/2"				
W x H (mm)		297X461	488 x	618/673^ (5.	5kw+)			
L* (mm)	60Hz	806	-	778	778			
L" (IIIII)	50Hz	781	717	742	778			
Amb. Operating Temp	(°C)		5°C ~40)°C	•			
Approx *Weight (Kg)	60Hz	75	~	135	150			
Approx. *Weight (Kg).	50Hz	69	108	120	140			
Accessories	Pressure I	Regulator, Safety	Valve, Inlet	Silencer, and	Inlet Filter			

Note: 1) * Length varies to motor mfg 2) **NPT threads available upon request



PCX SERIES

Claw Compressors

PCX- 155, 255, 305, 405 & 515



Dry Running - Oil Free - Contact Free Design

- Simple Modular Construction
- Air cooled & Direct Driven
- Low maintenance No wear
- High Efficiency Continuous Duty

Applications:

Transport, Pneumatic Conveying, Environmental systems, Air Sparging Applications, Fishing Farm, Central Pressure System.

Safety: CE certified (DOC)



General Description:

The PCX Series compressors are identical in internal construction to VCX pump, but are outfitted with different inlet and outlet accessories to allow for operation as a compressor. For reduction of noise, inlet silencer is installed in inlet side. For a protection of overload, a pressure safety valve or regulating valve is installed in exhaust side. The compressors are directly driven by a flanged motor via a coupling.

Specifications:

Model		PCX	(155		РСХ	255		ı	PCX 30)5		PCX	405			PCX	(515	
M3/ Hour	60Hz	1	80		30	00		360			480			600				
IVI 3/ Hour	50Hz	1:	50	250			300			400				50	00			
Dunna Camti Dan	60Hz	1	2	0.8	1.4	1.8	2.2	~	1.2	2.2	0.6	1.2	1.6	2	0.8	-	1.6	2
Press. Conti., Bar	50Hz	1	2	1	~	2	~	0.6	1.4	2.2	8.0	1.4	1.8	2	0.8	1.2	1.6	2
V	60Hz	6.5	9	9	11	13	15	~	13	18	13	18	22	26	18	-	26	36
Kw	50Hz	6.5	7.5	7.5	~	11	~	7.5	11	15	11	15	18.5	22	15	18.5	22	30
RPM - 60/50Hz	RPM									3450/2	850							
Voltage, Available	V						20	8~230/	460V, 22	20~240	/ 380~42	0V, 400	/690V					
dB(A) Ava	60Hz	8	32	82					82			8	3			8	3	
dB(A), Ave	50Hz	8	80		79				79		81				81			
Oil Capa (Gear box)	Ltr	0	.5				0.9							1	.8			
Inlet / Outlet Conn.	**BSP(G)	1-1	1/2"				2"							3	3"			
WxH (mm)		431	x 403		573	x 757			573 x 75	57		672 x	1003			672 x	1003	
L* (mm)	60Hz	903	941	1001	1171	1171	1171	~	1183	1183	1274	1274	1340	1395	1289	~	1410	1410
L (IIIII)	50Hz	903	903	961	~	1171	~	973	1183	1183	1274	1274	1274	1340	1289	1289	1355	1410
Amb. Operating	(°C)									5°C ~40	0°C							
Temp	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \																	
Accessories						Pressu	re Regul	ator, S	afety Val	ve, Inlet	Silencer	, and Inl	et Filter					

Note: 1) * Length varies to motor mfg 2) **NPT threads available upon request



Vacuum System

Rotary vane vacuum systems are available in a multitude of configurations: Simplex tank mount, Duplex tank mount, as well as Triplex, and Quadruplex stack mount systems.

The system shall include interconnecting piping and wiring to provide a functional operating package with applicable electrical and plumbing connections at the installation site. The packaged unit shall be factory assembled, tested, painted and crated prior to shipment.

■Normal Operation Vacuum:

- Oil Sealed Rotary Vane Pump System Set at 550 ~ 700mmHg
- Dry Rotary Vane Pump System:
 Set at 400 ~ 500mmHg

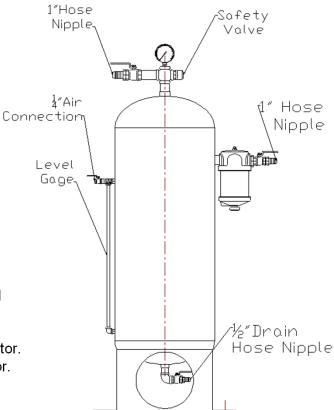


- WOVP or WVS series Rotary Vane Pump(s)
- Tank receiver
- Electrical control panel
- Integral Piping and Wirings
- Vacuum gage and Vacuum control switch
- Inlet air filter. Manual drain valve.
- Check valve & Pump isolation valve
- Three way solenoid valve (Optional)

CENTRIFUGAL VACUUM SEPARATOR

Centrifugal vacuum separator is designed to extract the liquids (mist and drops) from the gases and mixtures of gases. This separator will be installed upstream of vacuum pump to prevent the liquids from flowing into the pump from system. It should be stopped and aerated to drain the liquids out of separator. Liquids level can be easily checked with level indicator.



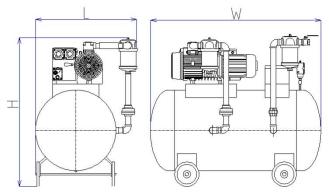


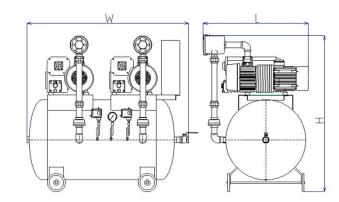


Vacuum System

Simplex Tank Mounted System







Oil sealed Rotary Vane Pump System

<u>9 11 0001.00 1 1</u>	otary vario i	<u> </u>	•					
MODEL	Pump Model	NO of Pump	Tank Size	Volume	Kw (Motor)	"W"	"L"	"H"
Simplex Ta	nk Mounted							
OST-020	WOVP-020	1	Ø350 x 650	50 ℓ	0.4 x 1	600	450	700
OST-040	WOVP-040	1	Ø350 x 650	50ℓ	0.9 x 1	600	450	700
OST-060	WOVP-060	1	Ø470 x 1100	170ℓ	1.5 x 1	1100	600	900
OST-090	WOVP-090	1	Ø470 x 1100	170ℓ	1.5 x 1	1100	600	900
OST-130	WOVP-130	1	Ø660 x 1200	370ℓ	2.2 x 1	1200	880	1200
OST-200	WOVP-200	1	Ø660 x 1200	370ℓ	3.0 x 1	1200	880	1200
OST-320	WOVP-320	1	Ø800 x 1400	630l	3.7 x 1	1500	1100	1600
OST-350	WOVP-350	1	Ø800 x 1400	630l	5.5 x 1	1500	1100	1600
OST-430	WOVP-430	1	Ø800 x 1400	630l	5.5 x 1	1500	1100	1600
OST-500	WOVP-500	1	Ø800 x 1400	630l	7.5 x 1	1500	1100	1600
Duplex Tan	k Mounted							
ODT-020	WOVP-020	2	Ø480 x 1100	170ℓ	0.4 x 2	1200	500	1300
ODT-040	WOVP-040	2	Ø480 x 1100	170ℓ	0.9 x 2	1200	500	1300
ODT-060	WOVP-060	2	Ø470 x 1500	250ℓ	1.5 x 2	1550	700	1300
ODT-090	WOVP-090	2	Ø470 x 1500	250{	1.5 x 2	1550	700	1300
ODT-130	WOVP-130	2	Ø660 x 1500	500ℓ	2.2 x 2	1700	900	1500
ODT-200	WOVP-200	2	Ø660 x 1500	500ℓ	3.0 x 2	1700	900	1500
ODT-320	WOVP-320	2	Ø800 x 1800	850ℓ	3.7 x 2	1950	1000	1700
ODT-350	WOVP-350	2	Ø800 x 1800	850l	5.5 x 2	1950	1200	1700
ODT-430	WOVP-430	2	Ø800 x 1800	850l	5.5 x 2	1950	1200	1700
ODT-500	WOVP-500	2	Ø800 x 1800	850l	7.5 x 2	1950	1200	1700

Dry Rotary Vane Pump System

2.7 retaily rainer amp eyetem								
MODEL	Pump Model	NO of Pump	Tank Size	Volume	Kw (Motor)	"W"	"L"	"H"
Simplex Tank Mounted								
OST-030	WVS - 3	1	Ø350 x 650	50 ℓ	0.4 x 1	600	450	650
OST-050	WVS - 5	1	Ø350 x 650	50ℓ	0.75 x 1	600	450	650
OST-060	WVS - 6	1	Ø470 x 1100	170ℓ	1.5 x 1	1200	600	900
OST-080	WVS - 8	1	Ø470 x 1100	170ℓ	1.5(6P) x 1	1200	600	900
OST-090	WVS - 9	1	Ø660 x 1200	370ℓ	2.2(6P) x 1	1500	800	1300
OST-100	WVS - 10	1	Ø660 x 1200	370ℓ	4.0 x 1	1500	800	1300