



**PT. INTIDAYA DINAMIKA SEJATI**



# PRODUCT CATALOGUE

Vacuum Pump & Roots Blower Specialist

Authorized Distributor Service and Partner in Indonesia for :



**PEDRO GIL**



[www.intidayads.com](http://www.intidayads.com)

## INTIDAYA DINAMIKA SEJATI SINCE 1969

Perusahaan yang bergerak pada Design, Engineering dan Service di bidang usaha Industri, dan umum didirikan di kota Jember pada tahun 1969 dengan nama **CV.Sejati/Bengkel Sejati**. Seiring dengan waktu, perusahaan ini telah berkembang dan semakin mendalami berbagai pekerjaan.

Design

Unit Sales



After Sales

Instalation



### Jakarta

Jalan Pangeran Jayakarta  
Ruko Blok 123 No. 41  
(021) 6000 8054

### Semarang

Perum Griya Bukit Jati Sari  
Blok C18 - Ungaran Timur  
(024) 7690 2512

### Surabaya

Jalan Sidosermo Indah I/11  
Kel. Sidodermo - Kec. Wonocolo  
(031) 9984 6910

### Jember

Jalan Mh. Thamrin Km 1  
Ajung - Kab. Jember  
(0331) 336 505

### Medan

0811 253 052

marketing@intidayads.com ☎ 0812 3785 5591

Authorized Distributor Service and Partner in Indonesia for :



# OUR WORKSHOP



**ENGINE AND AUTO PART REPAIR**



**INDUSTRIAL REPAIR ROTATING EQUIPMENT**



**WELDING AND FABRICATION**



**REWINDING ELECTROMOTOR**



**ELECTRICAL PANEL SYSTEM**



**AUTOMOTIVE SERVICES**



# OUR EQUIPMENT



**Vertical Line Boring**



**Honing**



**Line Boring Conventional**



**Horizontal Lathe Conventional**



**Connecting Rod**



**Cylindrical Machine**



**Wire Cut**



**Universal Drilling**



**CNC Lathe 2-Axis**



**Dynamic Balancing**



**Powder Coating**



**Sand Blasting**



**High Temperature Furnace**



**Metal Spray**



**Rolling Machine**



**Mesin Hobbing**



**S.M.A.W**



**G.T.A.W**



**F.C.A.W/G.M.A.W**



**Inverter 160 KW**

## MECHANICAL TOOLS



**6 Axis CMM**  
(Coordinate Measuring Machines)



Flir Thermal Imaging



SKF PULSE Vibration Sensor



Vibration Spectrum Analisa



Non Destructive-Test (PT&UT)



SKF Shaft Alignment



Belt Laser Alignment



Belt Tension



Hardness Tester



Roughness Tester



Enerpac



Oil Injector



Bearing Heater



Fitting Bearing



Noise Checker



Leak Detector



Flow Meter



DEW Point Monitoring



Portable Balancing



High Vacuum Gauge

## ELECTRICAL TOOLS



Insulation Test



Resistance Test



Tacho Meter



Multi Meter Voltage Tester



Clamp Meter Current Test



Surge Comparison & High Potential Test

## OUR CERTIFICATE

- Certificate of Qualification Ultrasonic Testing Level II
- Certificate of Qualification Welder Grade PF
- Certificate of AK3 PUBTCertificate of Welding Inspector
- Certificate of Qualification Mechanical Engineer- Intermediate
- Certificate of Imbalance & Balancing Process
- Certificate of Basic Vibration Analysis
- Electrical K3 Certificate
- General K3 Certificate
- Class 1 Welder Certificate
- Certificate of Shaft Alignment

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## CUSTOMER-ORIENTED VACUUM SOLUTIONS SINCE 1885.

Gebr. Becker was founded in 1885 as “Maschinenfabrik Gebr. Becker“ in Wuppertal-Barmen.

Today Becker is, in 4th generation owner-managed.  
A global leading manufacturer of vacuum and pneumatic equipment.

Approximately 120.000 devices and systems are produced in the plants every year.

## VACUUM & COMPRESSOR PRODUCT RANGE



Rotary vane, Oil free pump



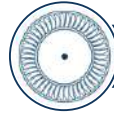
Rotary vane, Oil lubricated pump



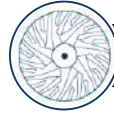
Screw pump



Claw pump



Side channel pump



Radial pump



## O5 Series



### Features Of O5

- Design for food packaging
- Compact design
- Available in 1 or 3 Phase (only for some model)
- Heavy duty for 24 hours operation

## U5 Series



### Features Of U5

- Faster pump down times
- Oil filter for longer oil service life
- Intergrated gas ballast
- Higher vacuum level
- Higher efficiency

Type	Flow Rate		Maximum Suction				Motor Power		Port
	m3/hr	Liter/Minutes	mbar abs	mbar rel	mmHg	inHg	Kw	hp	Inch
O 5.4	4	67	2.0	-998	-749	-29	0.10	0.50	0.5
O 5.6	6	107	3.0	-997	-748	-29	0.30	0.50	0.5
O 5.10	11	175	2.0	-998	-749	-29	0.37	0.50	0.5
O 5.16	16	267	2.0	-998	-749	-29	0.55	1.00	0.5
O 5.21	24	392	2.0	-998	-749	-29	0.75	1.00	0.5
U 4.20	18	300	0.5	-999.5	-750	-30	0.55	1.00	0.5
U 5.40	40	667	0.5	-999	-750	-30	1.10	1.48	1
U 5.71	70	1167	0.1	-999.9	-750	-30	1.50	2.00	1.25
U 5.101	100	1666	0.1	-999.9	-750	-30	2.20	3.00	1.25
U 5.166	165	2750	0.1	-999.9	-750	-30	4.00	5.00	2
U 5.201	200	3333	0.1	-999.9	-750	-30	5.50	7.50	2
U 5.301	300	4998	0.1	-999.9	-750	-30	7.50	10.00	2
U 4.400 SAK	435	7247	3.0	-997	-748	-29	11.00	15.00	3
U 4.400 FK	435	7247	0.5	-999.5	-750	-30	11.00	15.00	3
U 4.630 SAK	624	10396	3.0	-997	-748	-29	15.00	20.00	3
U 4.630 FK	624	10396	0.5	-999.5	-750	-30	15.00	20.00	3

• All Data @50Hz

• All pumps available in 50Hz - 60 Hz motor



## T Series



VT Series



KVT Series



VTLF Series

### Features of T Series

- Design for food packaging
- Compact design
- Available in 1 or 3 Phase (only for some model)
- Heavy duty for 24 hours operation

## X Series



KVX Series



VXLF Series

### Features of X Series

- Extended vane life
- Vane guaranteed for 20.000 hours
- Longer service life

Type	Flow Rate		Maximum Suction				Motor Power		Port
	m3/hr	Liter/Minutes	mbar abs	mbar rel	mmHg	inHg	Kw	hp	Inch
GV 8	7	117	100	-900	-675	-27	0.22	0.50	0.37
VT 4.4	4	67	150	-850	-638	-25	0.18	0.50	0.25
VT 4.8	8	133	150	-850	-638	-25	0.35	0.50	0.37
VT 4.10	10	167	150	-850	-638	-25	0.37	0.50	0.50
VT 4.16	16	267	150	-850	-638	-25	0.55	1.00	0.50
VT 4.25	25	417	150	-850	-638	-25	0.75	1.00	0.75
VT 4.40	40	667	150	-850	-638	-25	1.25	2.00	0.75
KVT 3.60	55	917	100	-900	-675	-27	2.20	3.00	1.00
PICCHIO 2200	90	1500	100	-900	-675	-27	3.00	4.00	1.00
KVT 3.80	67	1117	100	-900	-675	-27	2.40	3.50	1.00
KVT 3.100	98	1633	100	-900	-675	-27	3.00	4.00	1.50
KVT 3.140	129	2150	100	-900	-675	-27	4.00	5.50	1.50
VTLF 2.200	178	2967	200	-800	-600	-24	4.00	5.50	2.50
VTLF 2.250	244	4067	200	-800	-600	-24	5.50	7.50	2.50
VTLF 2.250SK	247	4117	100	-900	-675	-27	7.50	10.50	2.50
VTLF 2.360	351	5850	250	-750	-563	-22	11.00	15.00	2.50
VTLF 2.400	390	6500	200	-800	-600	-24	7.50	10.00	4.00
VTLF 2.500	495	8250	250	-750	-563	-22	11.00	15.00	4.00

• All Data @50Hz

• All pumps available in 50Hz - 60 Hz motor

## Standart DT Series



DT Series



KDT Series



DTLF Series

### Features of DT Series

- Made in Germany
- 100% oil free operational
- Ready for inverter intergration
- Available in 1 or 3 Phase
- Heavy duty for 24 hours operation
- Direct drive without pulley
- Single chamber for vacuum + pressure
- Pressure up to 2.0 Bar

## COMPRESSOR (pressure only)

Type	Flow Rate	Maximum Pressure	Motor Capacity	Port
	m3/hr	mbar rel	KW	Inch
DT 4.4	4	1000	0.18	0.3
DT 4.8	8	1000	0.37	0.4
DT 4.10	10	1000	0.37	0.5
DT 4.16	16	1000	0.55	0.5
DT 4.25	25	1000	1.10	0.8
KDT 4.40K	40	1500	1.85	0.8
KDT 3.60	54	1500	3.00	1.0
KDT 3.80	66	1500	4.00	1.0

Type	Flow Rate	Maximum Pressure	Motor Capacity	Port
	m3/hr	mbar rel	KW	Inch
KDT 3.100	99	1500	5.50	1.5
KDT 3.140	129	1500	7.50	1.5
DTLF 2.200	174	2000	11.00	2.5
DTLF 2.250	247	2000	11.00	2.5
DTLF 2.250	240	1800	15.00	2.5
KDTLF 2.360	360	900	15.00	2.5
DTLF 2.400	365	1800	18.50	4.0
DTLF 2.500	515	1800	30.00	4.0

## Standart T Series



T Series



DVT Series



DVTLF Series

### Features of T Series

- Made in Germany
- 100% oil free operational
- Ready for inverter intergration
- Available in 1 or 3 Phase
- Heavy duty for 24 hours operation
- Direct drive without pulley
- Single chamber for vacuum + pressure

## PRINTING PUMP (Vacuum & Pressure)

Type	Flow Rate	Maximum Pressure	Maximum Vacuum	Motor Capacity	Port
	m3/hr	mbar rel	mbar rel	KW	Inch
T 4.10 DV	10	500	-500	0.37	0.5
T 4.16 DV	16	500	-500	0.55	0.5
T 4.25 DV	35	500	-500	0.75	0.8
T 4.25 DV SK	23	600	-600	1.10	0.8
T 4.40 DV	35	500	-500	1.25	0.8
T 4.40 DV SK	35	600	-600	1.85	0.8
DVT 3.60	58	600	-600	2.20	1.0

Type	Flow Rate	Maximum Pressure	Maximum Vacuum	Motor Capacity	Port
	m3/hr	mbar rel	mbar rel	KW	Inch
DVT 3.80	70	600	-600	4.00	1.0
DVT 3.100	103	600	-600	5.50	1.5
DVT 3.140	137	600	-600	7.50	1.5
DVTLF 2.250K	242	500	-500	7.50	2.5
DVTLF 2.400	300	500	-500	11.00	2.5
DVTLF 2.500	500	500	-500	15.00	2.5

## Claw Pump



### Features

- Dry & contact free claw system
- Intergrated filter with large surface area
- Low Noise level
- Compact overall dimension
- Max. vacuum -950 mbar rel
- Max. pressure 2000 mbar rel

## Vacuum

Type	Flow Rate		Maximum Suction				Motor Power		Port
	m3/hr	liter/ min	mbar abs	mbar rel	mmHg	inHg	kw	hp	Inch
BCV 100	100	1666	50.0	-950	-713	-28	2.2	3	2.5
BCV 150	150	2499	100.0	-900	-675	-27	3	4	2.5
BCV 300	275	4582	150.0	-850	-638	-25	5.5	7.5	2.5

## Pressure

Type	Flow Rate		Maximum Pressure			Motor Power		Port
	m3/hr	liter/ min	mbar rel	mmHg	inHg	kw	hp	Inch
BCP 100	100	1666	1300	975	38	4	5.5	2.5
	100	1666	2000	1500	58	7.5	10	2.5
BCP 150	150	2499	1300	975	38	7.5	10	2.5
	150	2499	2000	1500	58	11	15	2.5
BCP 300	275	4582	1300	975	38	11	15	2.5
	275	4582	2000	1500	58	18.5	25	2.5

## Vacuum Booster Packages



- Consisting of an oil-lubricated rotary vane vacuum pump and a booster pump (roots) with integrated bypass as a backup for packaging processes with quick cycling times for high operational reliability and availability

Type	Flow	Vacuum	Pump Type		
	m³/h	mbar	RBP	U.5	Connection
PS 200/500	500	<0.1	RBP 500	U 5 200	DN 100
PS 300/500	500	<0.1	RBP 500	U 5 300	DN 100
PS 300/1000	1000	<0.1	RBP 1000	U 5 300	DN 100
PS 630/2000	2000	<0.1	RBP 2000	U 4 630	DN 150

• All Data @50Hz

## SV Series



### Features

- Made in Germany
- Easy maintenance
- Ready for inverter (40-100Hz)
- Available in 1 or 3 Phase (Only for some model)
- Heavy duty for hours operation
- Higher efficiency compare to other

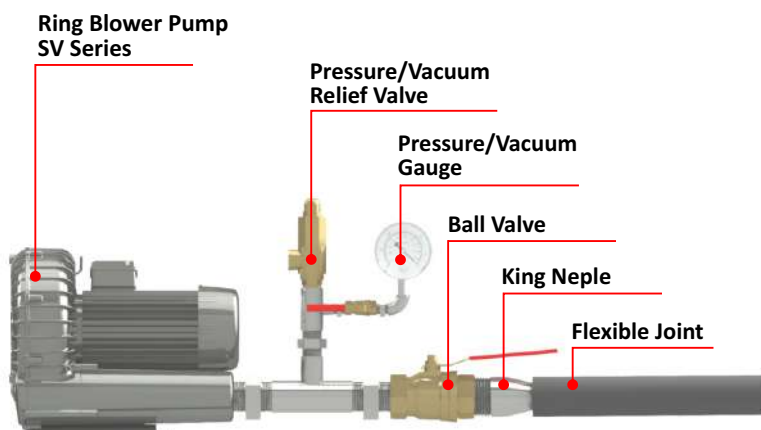
### SINGLE-STAGE (Vacuum or Pressure)

Type	Motor Power	Maximum Vacuum	Maximum Pressure	Flow Rate	Port
	kw	mbar rel	mbar rel	m3/hr	Inch
SV 130/1	0.55	-75	75	130	1.5
SV 130/1	0.75	-125	125	130	1.5
SV 130/1	1.10	-210	210	130	1.5
SV 130/1	1.25	-240	240	130	1.5
SV 200/1	1.10	-150	145	180	2.0
SV 200/1	1.50	-215	225	180	2.0
SV 300/1	2.20	-170	165	325	2.5
SV 300/1	3.00	-265	250	325	2.5
SV 300/1	4.00	-290	370	325	2.5
SV 400/1	3.00	-210	200	390	3.0
SV 400/1	4.00	-315	290	390	3.0
SV 400/1	5.50	-315	425	390	3.0
SV 500/1	4.00	-200	190	510	3.0
SV 500/1	5.50	-315	295	510	3.0
SV 500/1	7.50	-355	435	510	3.0
SV 700/1	5.50	-200	185	750	4.0
SV 700/1	7.50	-300	285	750	4.0
SV 700/1	11.00	-340	400	750	4.0
SV 1100/1	7.50	-160	140	1050	4.0
SV 1100/1	11.00	-290	260	1050	4.0
SV 1100/1	15.00	-320	390	1050	4.0

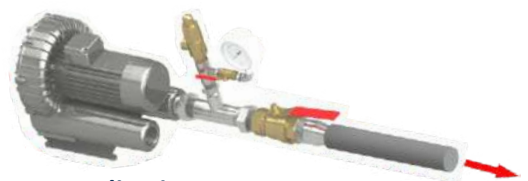
### DOUBLE-STAGE (Vacuum or Pressure)

Type	Motor Power	Maximum Vacuum	Maximum Pressure	Flow Rate	Port
	kw	mbar rel	mbar rel	m3/hr	Inch
SV 130/2	0.55	-170	160	70	1.5
SV 130/2	0.75	-270	250	70	1.5
SV 130/2	1.10	-380	400	70	1.5
SV 200/2	1.10	-330	300	90	2.0
SV 200/2	1.50	-330	410	90	2.0
SV 300/2	2.20	-350	330	160	2.5
SV 300/2	3.00	-405	515	160	2.5
SV 400/2	3.00	-440	390	195	3.0
SV 400/2	4.00	-440	530	195	3.0
SV 500/2	3.00	-280	370	260	3.0
SV 500/2	4.00	-410	480	260	3.0
SV 700/2	5.5	-390	330	370	4.0
SV 700/2	7.5	-420	500	370	4.0
SV 1100/2	7.5	-350	260	520	4.0
SV 1100/2	11	-390	500	520	4.0

## Recommended Installation



### Pressure Application



### Vacuum Application



## Ring Blower



### Features

- Made in China
- Easy maintenance
- Ready for inverter (40-50 Hz)
- Available in 1 or 3 Phase (Only for some model)
- Heavy duty for hours operation

### SINGLE-STAGE (Vacuum or Pressure)

Type	Motor Power	Maximum Vacuum	Maximum Pressure	Flow Rate	Port
	kw	mbar rel	mbar rel	m3/hr	Inch
SC55/012B	0.12	-60	60	55	1.25
SC80/040B	0.40	-120	130	80	1.25
SC100/055B	0.55	-110	120	100	1.25
SC150/070B	0.70	-120	120	145	1.50
SC150/085B	0.85	-160	160	145	1.50
SC150/130B	1.30	-170	200	145	1.50
SC210/085B	0.85	-160	170	210	2.00
SC210/130B	1.30	-170	170	210	2.00
SC210/160B	1.60	-200	190	210	2.00
SC210/220B	2.20	-220	270	210	2.00
SC270/160B	1.60	-170	180	265	2.00
SC270/220B	2.20	-220	230	270	2.00
SC320/220B	2.20	-210	200	318	2.00
SC320/300B	3.00	-270	290	318	2.00
SC350/300B	3.00	-240	220	345	2.00
SC420/400B	4.00	-260	310	420	2.00
SC530/430B	4.30	-200	200	530	2.50
SC530/550B	5.50	-300	320	530	2.50
SC700/550B	5.50	-200	180	700	2.50
SC700/750B	7.50	-270	260	700	2.50
SC1050/850B	8.85	-210	210	1050	4.00
SC1050/150B	15.00	-320	380	1050	4.00
SC1370/185B	18.50	-310	320	1370	4.00

### DOUBLE-STAGE (Vacuum or Pressure)

Type	Motor Power	Maximum Vacuum	Maximum Pressure	Flow Rate	Port
	kw	mbar rel	mbar rel	m3/hr	Inch
SCD110/085B	0.85	-200	230	110	0.25
SCD110/130B	1.30	-230	230	110	0.25
SCD150/220B	2.20	-330	420	150	0.50
SCD230/300B	3.00	-340	410	230	2.00
SCD320/400B	4.00	-355	375	320	2.00
SCD320/550B	5.50	-440	500	320	2.00
SCD520/750B	7.50	-400	400	520	2.50
SCD520/110B	11.00	-430	600	520	2.50
SCD1110/165B	16.50	-420	370	1100	4.00
SCD1950/200B	20.00	-220	200	1940	4.00
SCD1950/250B	25.00	-310	270	1940	4.00
SCD2050/200B	20.00	-250	230	2050	5.00
SCD2050/250B	25	-310	270	2050	5.00

## OPTIONAL ACCESSORIES



Relief Valve



Vacuum Gauge

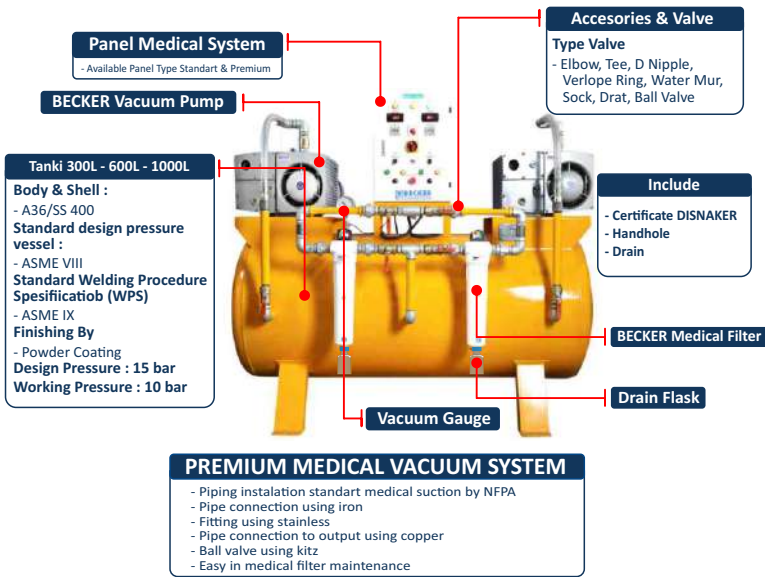


Pressure Gauge

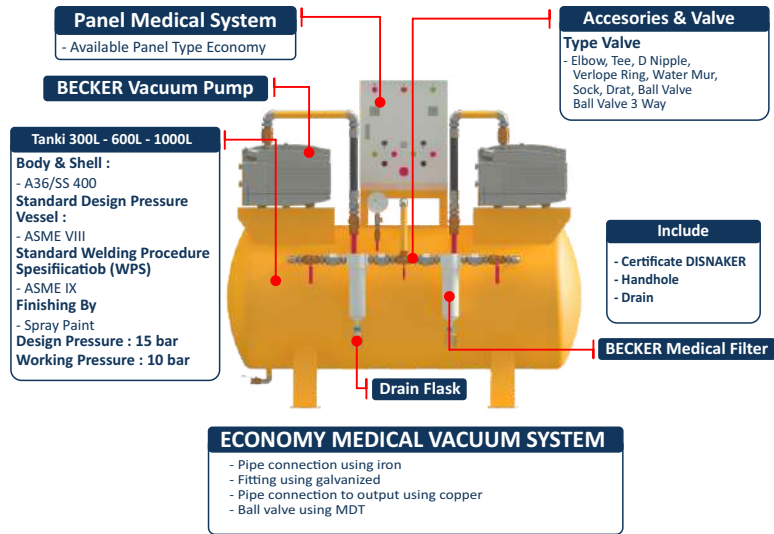


Intake Filter

## PREMIUM DESIGN



## ECONOMY DESIGN



## Medical Oil Lubricated Duplex System (2 Pumps)

MODEL	VACUUM PUMP (2 UNIT)	MEDICAL FILTER (2 UNIT)	MAXIMUM FLOW RATE		MOTOR (kW)	TANK CAPACITY LITERS
			m <sup>3</sup> /hr	liter/min		
DL20	U 4.20	M-VAC 0076	2 x 18	2 x 300	2 x 0.55	300
DL40	U 5.40	M-VAC 0186	2 x 40	2 x 667	2 x 1.10	300
DL71	U 5.71	M-VAC 0306	2 x 70	2 x 1167	2 x 1.50	600
DL101	U 5.101	M-VAC 0306	2 x 100	2 x 1667	2 x 2.20	600
DL166	U 5.166	HV-UL896-126HC	2 x 165	2 x 2750	2 x 4.00	1000
DL201	U 5.201	HV-UL896-126HC	2 x 200	2 x 3333	2 x 5.50	1000
DL301	U 5.301	HV-UL896-151HC	2 x 300	2 x 5001	2 x 7.5	1000

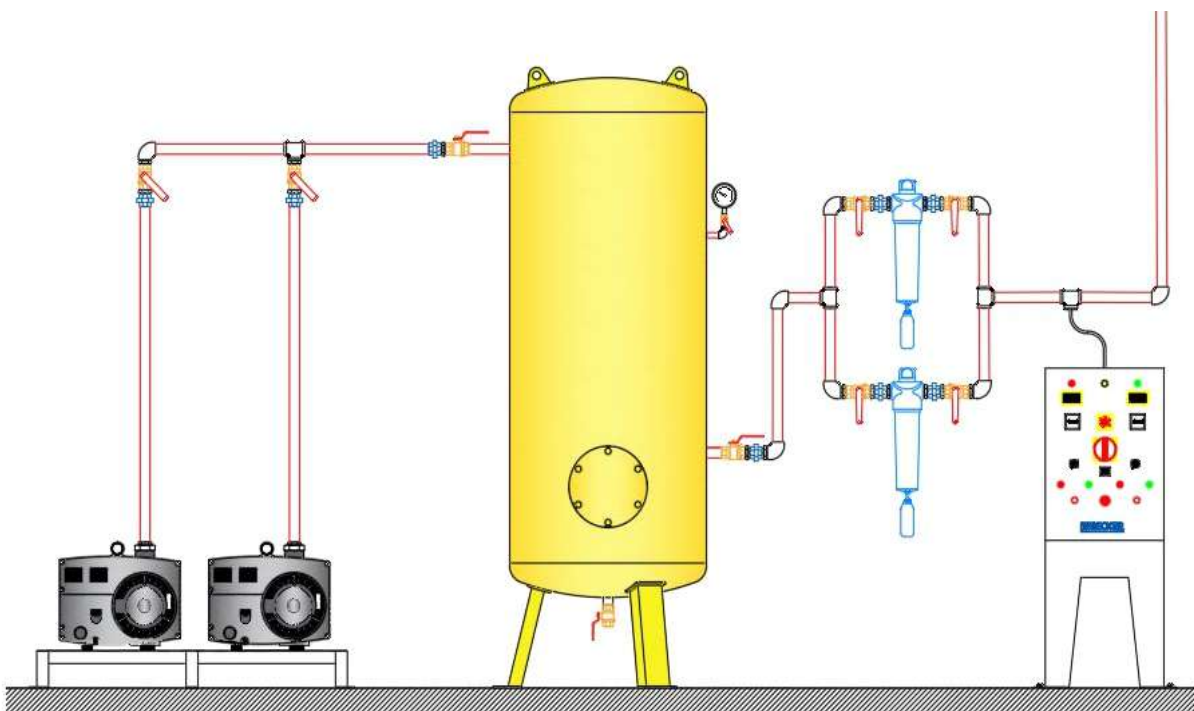
Include Reservoir Tank, Piping And Electrical Control Panel

## Medical Oil Free Duplex System (2 Pumps)

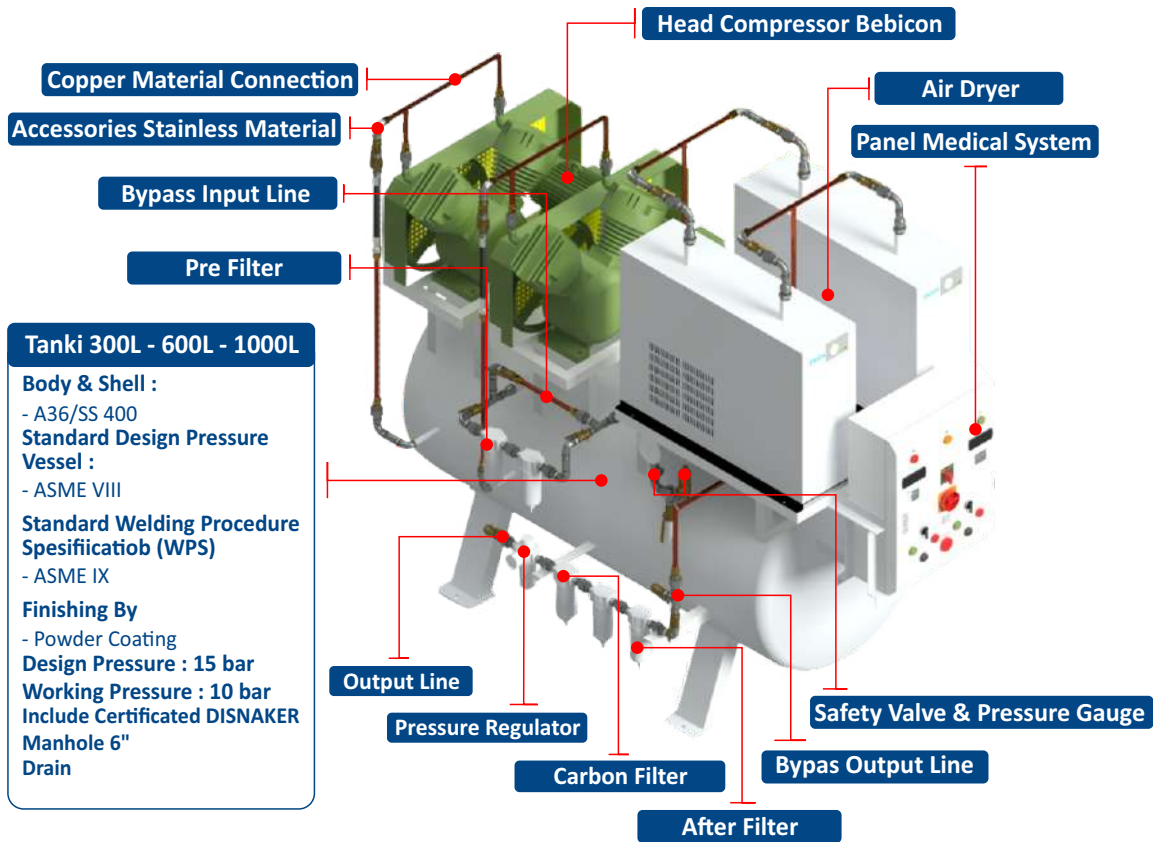
MODEL	VACUUM PUMP (2 UNIT)	MEDICAL FILTER (2 UNIT)	MAXIMUM FLOW RATE		MOTOR (kW)	TANK CAPACITY LITERS
			m <sup>3</sup> /hr	liter/min		
DF 25	VT 4.25	M-VAC 0076	2 x 25	2 x 417	2 x 0.75	300
DF 40	VT 4.40	M-VAC 0186	2 x 40	2 x 666	2 x 1.25	300
DF 80	KVT 3.80	M-VAC 0306	2 x 67	2 x 1116	2 x 2.40	600
DF 90	PICCHIO 2200	M-VAC 0306	2 x 90	2 x 1500	2 x 3.00	600
DF 100	KVT 3.100	M-VAC 0306	2 x 98	2 x 1633	2 x 3.00	1000
DF 140	KVT 3.140	HV-UL896-126HC	2 x 129	2 x 2149	2 x 4.00	1000
DF 250	VTLF 2.250	HV-UL896-151HC	2 x 244	2 x 4065	2 x 5.50	1000

Include Reservoir Tank, Piping And Electrical Control Panel

## AIR FLOW VACUUM MEDICAL SYSTEM



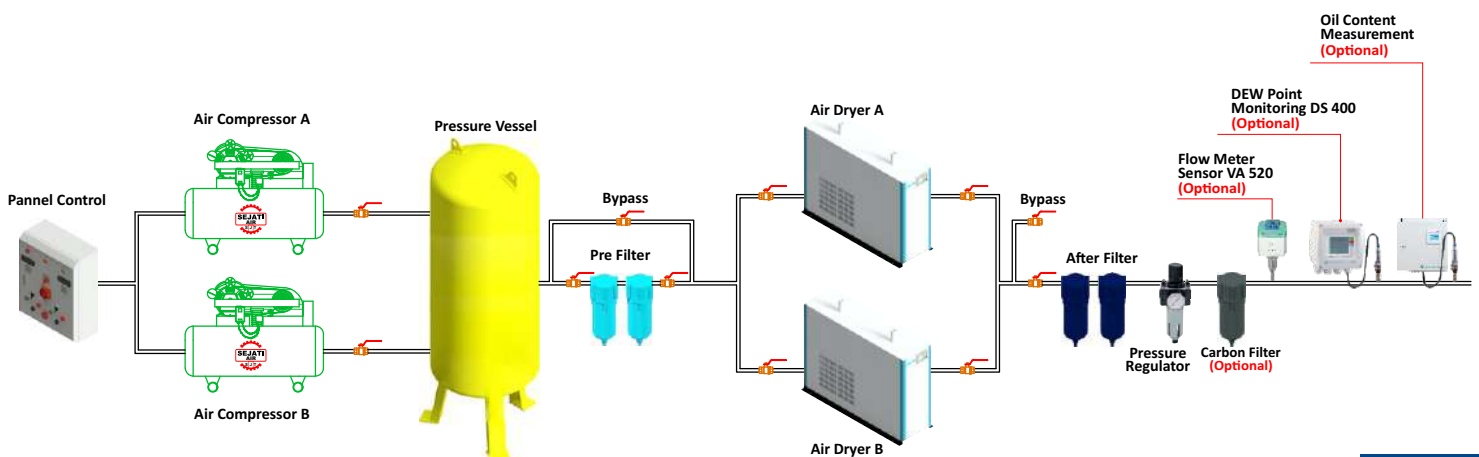
## DESIGN COMPRESSOR MEDICAL SYSTEM

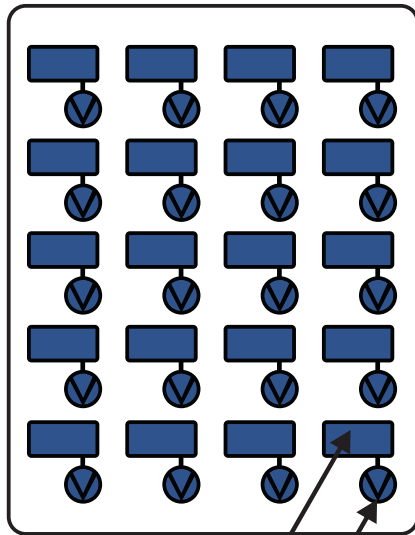


## Compressor Medical System

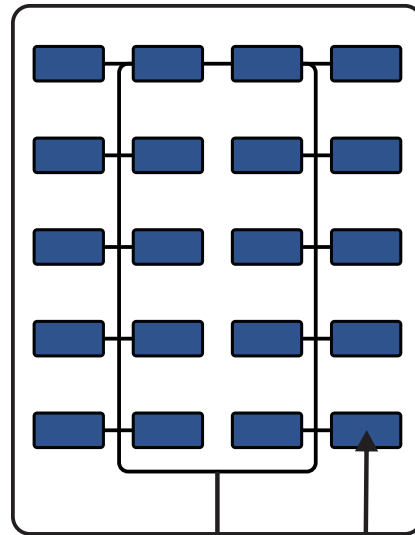
CODE	DESCRIPTION	POWER	CAPACITY (liter/min)	Dryer & Filter ORION (Pre & After)	Receiver Tank (Liter)
BOF-P 0.75	0.75OP - 9.5GS5A	1p / 220v	80		300
BOF-P 1.5	1.5OP - 9.5GS5A	1p / 220v	165	ARX 5HJ dan LSF+MSF 150AL	600
BOF-P 2.2	2.2OP - 9.5GS5A	1p / 220v	265		600
BOF-P 3.7	3.7OP - 9.5G5A	3p / 380v	440		1000
BOF-P 5.5	5.5OP - 9.5G5A	3p / 380v	630	ARX 10HJ dan LSF+MSF 150AL	1000
BOF-P 7.5	7.5OP - 8.5G5A	3p / 380v	840		1000
BOF-P 11	11OP - 8.5G5A	3p / 380v	1200	ARX 20HJ dan LSF+MSF 200AL	1000

## AIR FLOW COMPRESSOR MEDICAL SYSTEM





Production Machine  
Individual Vacuum Pump



Production Machine  
Production Machine



VADS 250



VADS 1500

## Features Of BECKER SCREW

- Made in Germany
- Ideal for central vacuum system
- Best Efficiency at it's class
- Oil free screw
- Oil only for bearing lubrication
- VSD (Variable Speed Drive)
- Danfoss Inverter

Type	Flow Rate (m <sup>3</sup> /hr)		Motor kW	RPM		Max. Suction		Max. Pressure
	Min	Max		Min	Max	mbar rel	mbar abs	mbar rel
VADS 250	110	250	7.5	5000	10000	-999.9	0.1	-
VADS 1500	750	1420	37	6600	12000	-800	200	-
VADS 1500 + Vacuum	750	1380	30	6600	12000	-800	200	-
VADS 1500 + Pressure	750	1230	45	5000	10000	-	-	1000

## INDONESIA ASSEMBLED CENTRAL SYSTEM



Indonesia assembled central system will be using electrical and mechanical component that are available in Indonesia. (Available on Oil Free and Oil Lubricated Pumps)



## MEDICAL VACUUM FILTER



MEDICAL FILTER M-VAC SERIES



MEDICAL FILTER HV SERIES

Filter Model	Pipe Size (Inch)	Unit Vacuum		Bacterial Filtration Rate
		Oil Free	Oil Lubricated	
M-Vac 0076	½"	VT 4.25	U 4.20	0.005%
M-Vac 0186	1"	VT 4.40	U4.40	
M-Vac 0306	1"	KVT 3.60 PICCHIO 2200 KVT 3.80 KVT 3.100	U5.71 U5.101	
HV-UL896-126HC	1 ¼"	KVT 3.140 VTLF 2.200	U5.166 U 5.201	
HV-UL896-151HC	1 ½"	VTLF 2.250	U5.301	

## ACCESSORIES



EXTERNAL FILTER

Model	Flow Rate (m³/h)	Port (Inch)
F 6	25	¾"
F 10	40	¾"
F 35	90	1 ¼"
F 110	144	1 ¼"
FV 200	300	2"
FV 250	300	2 ½"
FV 540	450	4"



SPINMEISTER

- Extreme Duty Filtration
- Bucket from shatter resistant polycarbonate
- Clip release for easy maintenance

Port Size (inch)	Flow (m³/hr)
2"	68-167
3"	170-340
4"	340-765
6"	765-1530



LIQUID SEPARATOR

- Corrosion resistant casting
- Bucket from shatter resistant polycarbonate
- Maximum inlet temperature 104c

Port Size (inch)	Flow (m³/hr)	Holding Capacity (liter)
1"	68	1.6
1 ¼"	102	1.6
1 ½"	136	1.6
2"	297	3.7
2 ½"	356	3.7
3"	510	5.7
4"	850	5.7



PN: 7433050000



PN: 96000900200 (MINERAL)  
PN: 96001600200 (SYNTETIC)

GREASE GUN & VACUUM PUMP OIL

- Vacuum pump oil available syntetic and mineral
- Grease amblygon TA 15 in 50 gram

## PANEL CENTRAL VACUUM SYSTEM



Type Economy



Type Standard







Type Premium

### Perbedaan Panel Control

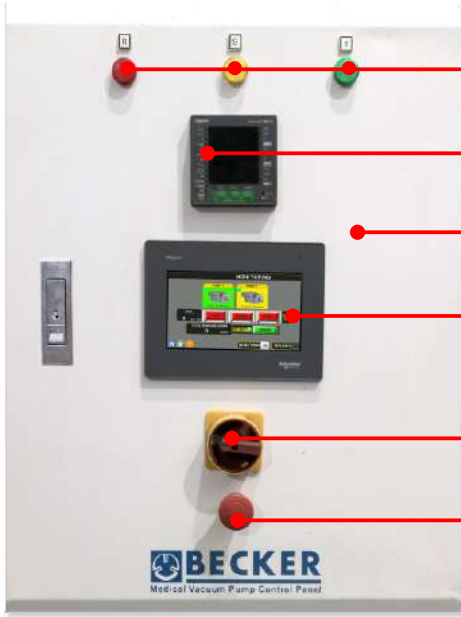
NAME	ECONOMY	STANDARD	PREMIUM
Mcb	Chint /Sihlin	LS	Schneider/LS
Overload Contactor	Schneider	LS	Schneider/LS
Relay	Omron	Omron	Omron
Ampere & Volt Meter	No	Digital	Digital
Hour Meter	Analog	Digital	Digital
Vacuum Switch	Digital	Digital	Transducer 4-20 MA
Work System	Relay (Omron)	PLC (Omron /Schneider)	PLC dan HMI (Omron)
Proteksi (phase Failure)	No	Yes	Yes
Touchscreen	No	No	Yes
Controllable Pump	2 unit	3 unit	10 unit

#### Merk

#### Komponen

	<ul style="list-style-type: none"> <li>• MCB 3 Phase</li> <li>• MCB 1 Phase Control</li> <li>• Contractor &amp; Thermal Overload</li> <li>• Relay</li> </ul>
	<ul style="list-style-type: none"> <li>• Hour Meter</li> <li>• PLC Relay</li> <li>• Phase Failur Relay</li> <li>• Power Supply</li> <li>• HMI</li> </ul>
	<ul style="list-style-type: none"> <li>• Vacuum/Pressure Digital</li> <li>• Instrument Sensor</li> </ul>
	<ul style="list-style-type: none"> <li>• Ampere &amp; Voltage Meter</li> </ul>





RST Voltage Indicator

Power Meter

Built In INVERTER

Touchscreen HMI

Main Switch Power

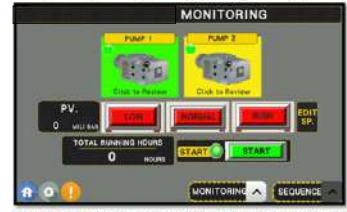
Emergency Stop

## SYSTEM DESCRIPTION

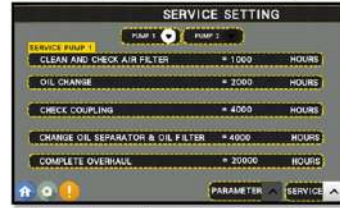
ABB



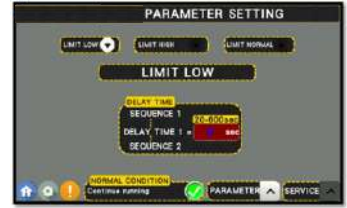
Inverter for increase efficiency and power saving



Display for easy control and monitoring  
Touchscreen features for easy control

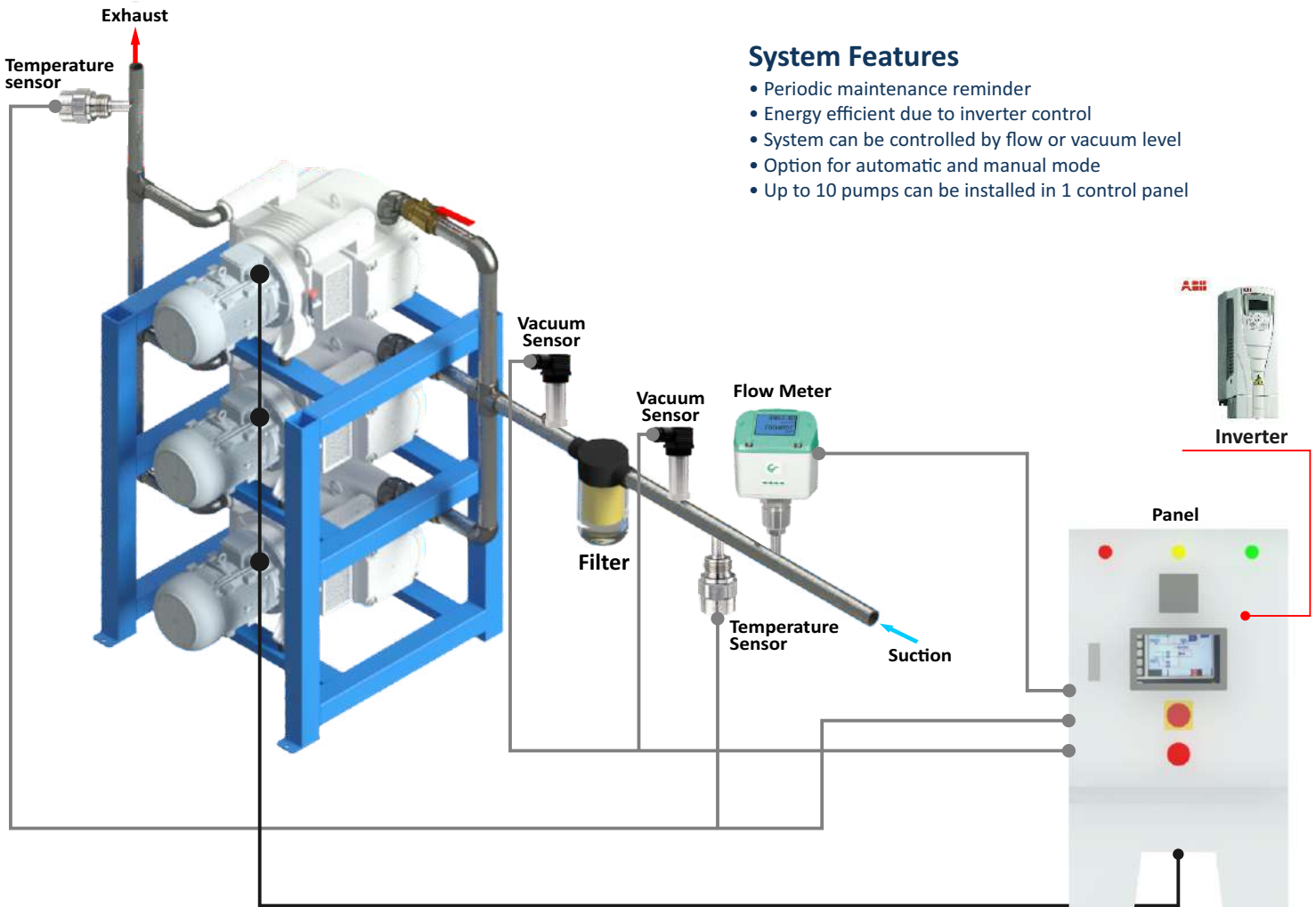


Reminder for pumps preventive maintenance



Pumps parameter can be adjusted based on demand

## Central Vacuum System Configuration



### System Features

- Periodic maintenance reminder
- Energy efficient due to inverter control
- System can be controlled by flow or vacuum level
- Option for automatic and manual mode
- Up to 10 pumps can be installed in 1 control panel

## REPAIR KIT BECKER VACUUM PUMP OIL LUBRICATED



### DESCRIPTION

1. External Filter
2. Oli Vacuum Syntetic & Mineral
3. Oil Separator Element
4. Coarse Separator
5. Slide Bearing
6. Oil Filter
7. Filter Strainer
8. Oil Sight Glass
9. Coupling Disc
10. Filter Catride Gas Ballast
11. Shaft Seal
12. Complete Set of Seal
13. Rotor Vane Kit

## REPAIR KIT BECKER VACUUM PUMP OIL FREE



### DESCRIPTION

1. Dust Separator
2. Filter Cartride
3. Bearing Set
4. Seal Teflon
5. Shaft Seal
6. Carbon Vanes
7. Rubber Coupling
8. Grease
9. Gasket Set



**Flir Thermal Imaging**



**Flow Meter**



**CMM**  
(Coordinate Measuring Machines)



**Leak Detector**



**High Vacuum Gauge**



**Non Destructive-Test (PT&UT)**



**Insulation Test**



**Resistance Test**



**Clamp Meter Current Test**



**Bearing Heater**



### Pump Housing, Rotor & Lid Analysis Process



### Parts Machining Process



### Motor Rewinding Process

### Pump Assembly Process



### Rietschle VC 150



### Busch Mink 1252



### Becker VTLF 2.250

## OTHER BRAND WE SERVICE





## **Pedro Gil, since 1897 in Barcelona-Spain innovating in technology.**

We support customers world wide providing excellent customer support and keeping straight relationship with customers. Our corporate values are: innovation, customer focus, product quality and service.

In Pedro Gil, we have been providing technologically advanced, high performance air blowers with excellent durability, for more than 100 years.

## **Pedro Gil products – Pressure and Vacuum Our specialities are the areas of Pressure and Vacuum.**

A wide range of options offering the most technologically innovative solutions in the sector is available for each of these



## Highlights

- 1 Accessibility**  
Improving access to the main points of maintenance
- 2 Maintenance**  
New points of maintenance located in the front and rear acoustic hood panels. Allowing to install groups side by side, optimizing space.
- 3 Electronic panel**  
New electronic control panel for measuring temperature, pressure, vibration, oil level (Intranet connection is optional).
- 4 Levels**  
Oil level visible from outside the acoustic hood.
- 5 Changes**  
Quick change of filter cartridge, opening the door of the acoustic hood.
- 6 Oil change**  
New oil system for an easy filling and emptying .
- 7 Belts**  
Easily tension without having to dismantle the acoustic hood.
- 8 Acoustic hood floor**  
It is included for an easy transport.
- 9 Safety valve**  
Installed in airflow fan aspiration.
- 10 Quick access**  
to all valves (safety check and unloaded) through impulse side panel.
- 11 Easy move**  
The new acoustic hood design allows an easy handling.



### PG-30 group includes:

- A three lobes blower.
- The air filter-silencer, connected on the blower's inlet flange.
- The reactive silencer placed on the outlet side. It is metallic and ecological. It is also the base-frame for the blower and motor.
- The drive is by an electrical motor through v-belts and pulleys (taper-lock system).
- The belt guard is made from steel sheet also with acoustic hood.
- The relief valve designed to evacuate air or gas when the pressure is over.
- The check valve protects the blower against a back pressure when the blower stops and the pipe is pressurized.
- The flexible rubber sleeve with clamps connects the group with the pipe.
- Filling and emptying oil system.
- The elastic feet, support the group.

### Construction Features

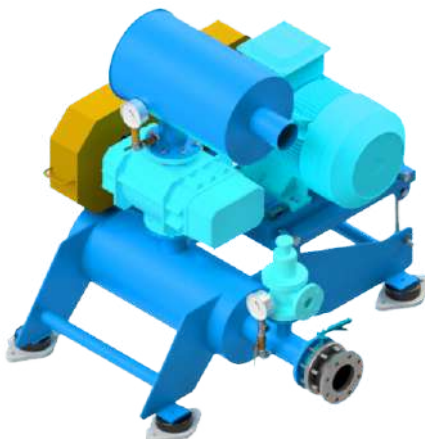
This blower is provided with three lobe rotors, closed and dynamically balanced. Housed in a cast iron cylinder which has an specific system on the outlet side that obtains a progressive compression and, consequently, a reduction of the pulsation at the point where it starts. Helical gears hardened and ground according DIN-6.

The fitting on the shaft is conical. Oil splash provides lubrication to both gears and bearings. The sealing between the cylinder and oil housings is through, labyrinth segment seal and intermediare condenser haes. A radial lip seal guarantees the drive shaft sealing.

### Construction Features

#### Manufacturing materials

Cylinder Headplate Gear & Bearing housing	Cast iron GG-25
Shaft-Piston Sizes 30.05 to 33.30	Forged steel CK-45
Pistons Sizes 34.10 to 36.20	Cast iron nodular GGG-50
Shafts Sizes 34.10 to 36.20	Steel CK-45
Gears	Steel 18 Cr Mo4





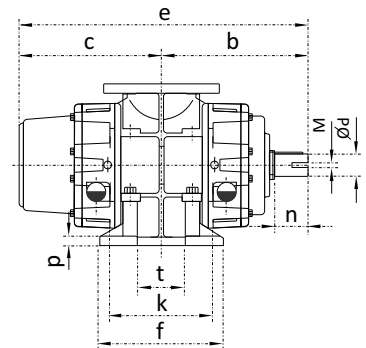
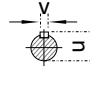
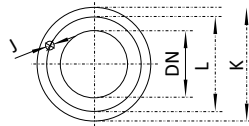
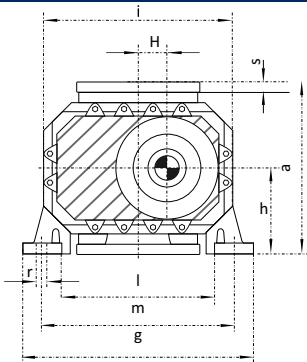
## TECHNICAL DATA

TYPE RNT		30.10	30.20	30.30	31.10	31.20	31.30	32.10	32.20	32.30	33.10
Max. Delivery	m <sup>3</sup> /min	3,96	5,57	7,74	7,86	10,92	15,70	16,41	23,70	34,1	25,57
Max. Delivery	m <sup>3</sup> /h	237,60	334,20	471,40	471,60	471,20	942,00	984,60	1.422,00	2,046,00	1,534,20
Max. Speed	rpm	4800	4800	4800	4800	4800	4500	4800	4800	4800	3800
Max. Pressure	mbar	900	800	800	1000	1000	800	1000	1000	800	1000
Max. Vacuum	mbar	450	450	450	450	450	450	450	450	450	450
Max Drive Power	kW	11	15	18,5	30	30	30	37	55	75	75
Dimension											
Length, Without Drive Shaft	mm	461	501	551	559	614	715	643	723	835	726
Width	mm	313	313	313	366	366	366	426	426	426	529
Height	mm	276	276	276	320	320	320	350	350	350	400
Connection Flange DN	mm	50	80	80	80	100	100	100	150	150	150
Weight	kg	67	75	85	95	112	132	175	198	236	280

TYPE RNT		33.20	33.30	34.10	34.20	34.30	35.10	35.20	35.30	36.10
Max. Delivery	m <sup>3</sup> /min	37,92	46,77	40,38	54,15	79,84	64,6	88,46	93,38	144,38
Max. Delivery	m <sup>3</sup> /h	2,275,20	2,806,20	2,422,80	3,249,00	4,790,40	3,876,00	5,307,60	5,602,80	8,662,80
Max. Speed	rpm	3800	3300	2950	2950	2950	2400	2400	1800	1800
Max. Pressure	mbar	1000	800	1000	1000	700	1000	800	1000	800
Max. Vacuum	mbar	450	450	450	450	450	450	450	450	450
Max Drive Power	kW	90	90	90	132	132	160	160	250	315

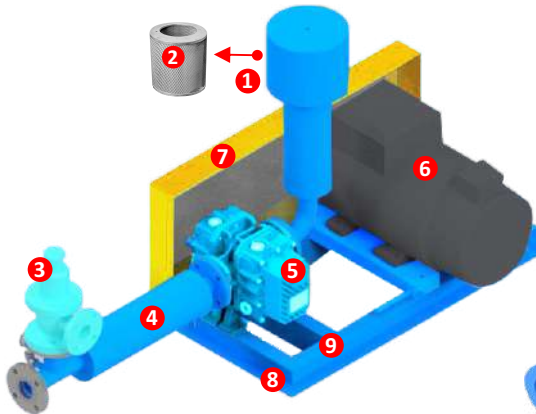
Length, Without Drive Shaft	mm	832	971	905	1016	1197	990	1096	1203	1434
Width	mm	529	529	529	529	592	728	728	948	948
Height	mm	400	400	500	500	500	630	630	780	780
Connection Flange DN	mm	150	200	200	200	250	250	250	250	300
Weight	kg	315	373	390	428	455	600	670	1220	1400

## DIMENSION BLOWER

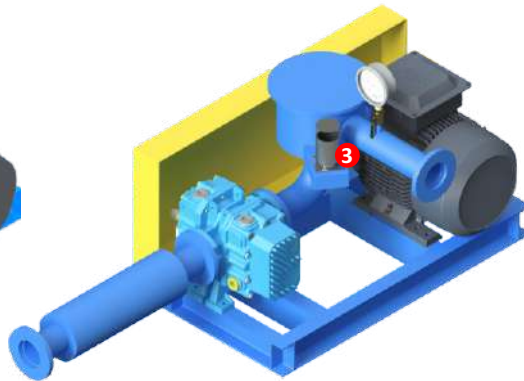


Size	DN	a	b	c	ød	e	f	g	h	i	k	l	m	n	p	r	s	t	u	v	H	J		K	L	M	Weight (kg)
																						ø	n°				
30.05	50	276	221	200	28	421	68	313	138	264	33	197	253	84	18	14	18	-	31	8	37,5	18	4	165	125	M8	60
30.10	50	276	241	220	28	461	148	313	138	264	118	197	253	84	18	14	18	11	31	8	37,5	18	4	165	125	M8	67
30.20	80	276	261	240	28	501	188	313	138	264	158	197	253	84	20	14	20	51	31	8	37,5	18	4	200	160	M8	75
30.30	80	276	286	265	28	551	238	313	138	264	207	197	253	84	20	14	20	101	31	8	37,5	18	4	200	160	M8	85
31.10	80	320	296	263	38	559	214	366	160	300	174	202	290	88	20	18	20	60	41,4	10	43	18	4	200	160	M8	95
31.20	100	320	323	291	38	614	270	366	160	294	230	202	290	88	20	18	19	114	41,4	10	43	18	8	220	180	M8	112
31.30	100	320	374	341	38	715	370	366	160	300	330	202	290	88	20	18	20	216	41,4	10	43	18	8	220	180	M8	132
32.10	100	350	338	305	45	643	249	426	175	370	202	266	354	103	23	18	20	71	48,6	14	53	18	8	220	180	M12	175
32.20	100	350	378	345	45	723	328	426	175	370	282	266	354	103	23	18	20	152	48,6	14	53	18	8	220	180	M12	198
32.30	150	350	434	401	45	835	440	426	175	370	394	266	354	103	23	18	20	264	48,6	14	53	23	8	285	240	M12	236
33.10	150	400	381	345	55	726	303	529	200	452	253	347	444	143	25	24	22	113	58,6	16	67	23	8	285	240	M12	280
33.20	150	400	434	398	55	832	409	529	200	452	359	347	444	143	25	24	22	219	58,9	16	67	23	8	285	240	M12	315
33.30	150	400	504	467	55	971	549	529	200	452	499	347	444	143	25	24	22	359	58,9	16	67	23	8	285	240	M12	373
34.10	150	500	481	424	60	905	252	592	250	544	177	404	528	145	40	24	22	102	64,3	18	85	23	8	285	240	M20	390
34.20	200	500	537	479	60	1.016	363	592	250	544	288	404	528	145	40	24	26	213	64,3	18	85	23	8	340	295	M20	428
34.30	200	500	627	570	60	1.197	539	592	250	544	464	404	528	145	40	24	26	389	64,3	18	85	23	8	340	295	M20	455
35.10	200	630	522	468	70	990	329	728	315	644	249	488	638	150	45	24	27	169	74,7	20	106	23	8	340	295	M20	600
35.20	250	630	586	532	70	1.094	458	728	315	644	378	488	638	150	45	24	27	298	74,7	20	106	23	12	395	350	M20	670
36.10	250	780	653	550	90	1.203	390	948	390	810	280	628	846	190	55	24	27	170	95,4	25	135	23	12	395	350	M24	1.220
36.20	300	780	769	665	90	1.434	620	948	390	810	510	628	848	190	55	24	27	400	95,4	25	135	23	12	445	400	M24	1.400

## TYPE ECONOMY



PRESSURE



VACUUM

### ALL TYPE INCLUDE

1. Intake Filter
2. Air Filter Cartridge (Optional)
3. Pressure/Vacuum Relief Valve
4. Discharger Silencer
5. Blower
6. Motor
7. Cover V Belt + Pulley
8. Rubber Mounting
9. Baseplate Type Economy

#### Include

- V Belt
- Pulley Motor + Tapperlock
- Pulley Blower + Tapperlock

### Detail



1

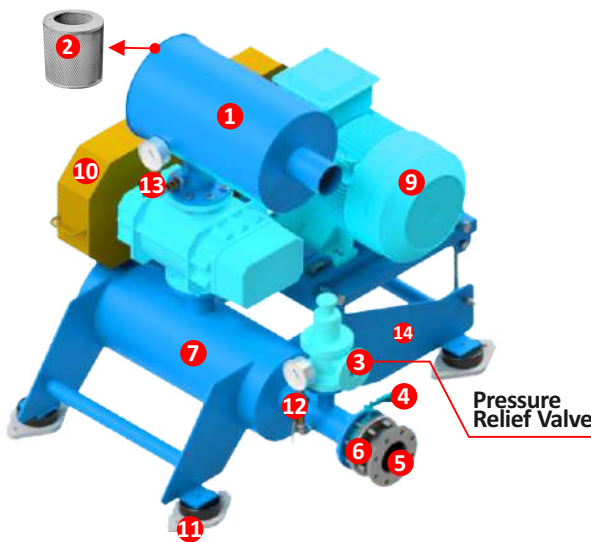


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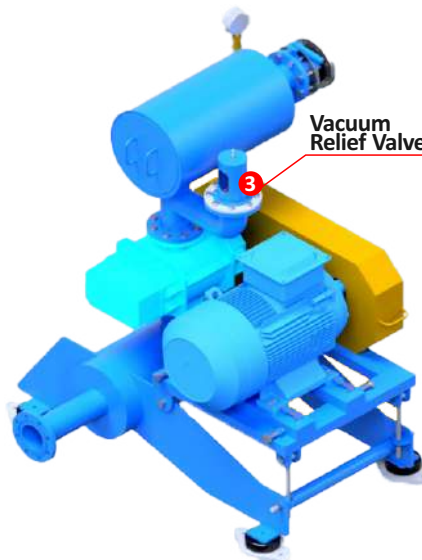


3

## TYPE PREMIUM



PRESSURE



VACUUM

### ALL TYPE INCLUDE

1. Intake Filter
2. Air Filter Cartridge (Optional)
3. Pressure/Vacuum Relief Valve
4. Butterfly Valve
5. Flexible Join
6. Check Valve
7. Discharger Silencer
8. Blower
9. Motor
10. Cover V Belt + Pulley
11. Rubber Mounting
12. Pressure Gauge
13. Vacuum Gauge
14. Baseplate Type Premium
15. Des Case

#### Include

- V Belt
- Pulley Motor + Tapperlock
- Pulley Blower + Tapperlock

### Detail



1



2



3



4



5



6



13

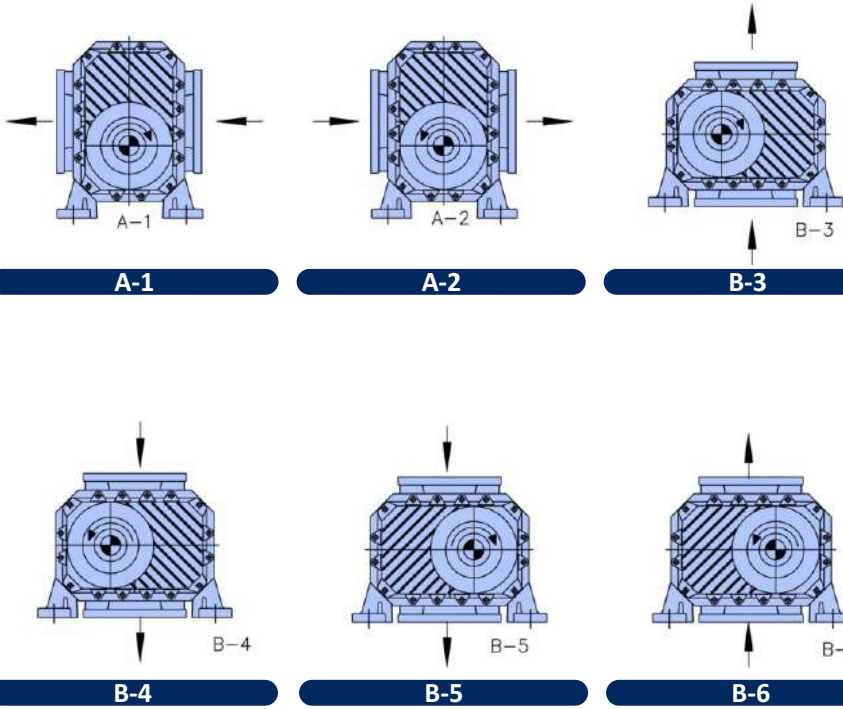


12



15

## FLANGE EXECUTION



## DES CASE



### How It Works

This breather unit replaces the standard dust cap or OEM breather cap on equipment. Checkvalves on the bottom of the unit isolate the system until equipment needs to breathe. As air is drawn into equipment through the breather, the layered filter elements remove particulate while the desiccant beads strip harmful moisture. While in service or during shutdown, the desiccant beads attract moisture from inside the equipment reservoir, actively drying the equipment.

### By the Numbers:

- 1-Domed Cap**  
A domed cap allows for better washdown runoff
- 2-Integrated Nylon Standpipe**  
The integrated standpipe provides excellent vibration resistance and dissipates impact throughout the unit, eliminating weak points. It also allows even airflow distribution throughout the unit, eliminating inaccurate readings of desiccant saturation.
- 3-External Ribs**  
External ribs on shell to create greater durability and grip when installing or replacing breather
- 4-Integrated Drip Ring**  
An integrated drip ring keeps shedding water from entering the vent holes
- 5-Threaded Mounting**  
Easily replaces standard filler/breather cap with multi-fit connection or one of several adapters.
- 6-Larger, High-Capacity Check Valves**  
High-capacity check valves allow for increased airflow at low cracking pressure.
- 7-Filter Element**  
Polyester filter element removes airborne contamination to 3-micron absolute. Unique loops allow particles to release during system exhalation, helping to increase breather life.
- 8-Enhanced Seal**  
An enhanced seal eliminates potential for airflow bypass

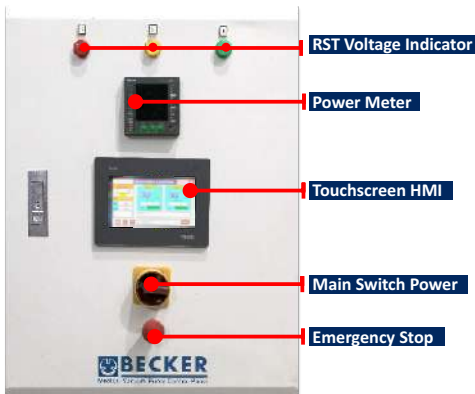


	Amount of Desiccant:	Adsorption Capacity:	Air Flow Rate:	Flow Rate:
DC-VG-1	3 lbs / 1 kg	2 fl oz / 50 ml	1 cfm @ 1 Psid	11 gpm / 41 lpm

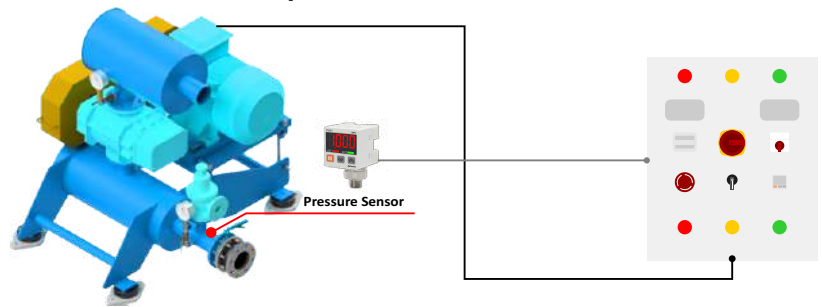
### Sizing / Flow Rate

Model	Suction / Return Rate (gpm / lpm)	Gearbox / Storage Tank Reservoir Size (Gallons / Liters)	Hydraulic Reservoir Size (Gallons / Liters)
DC-VG-1	11 / 41	35 / 132	5 / 19

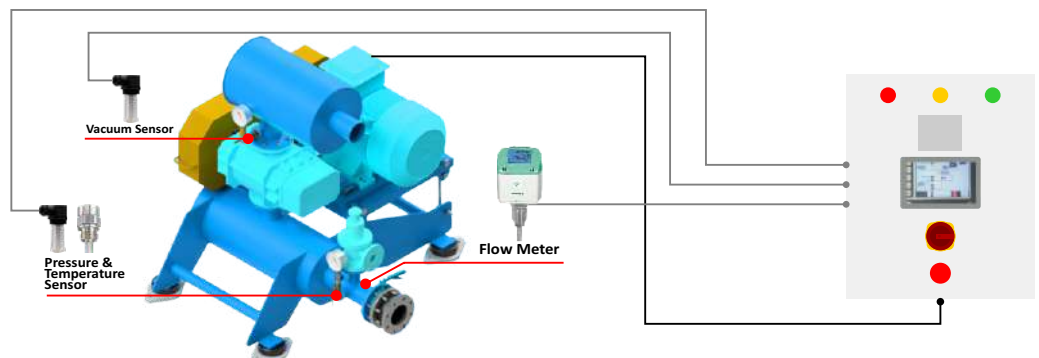
## CONTROL PANEL



### Option 1, Direct On Line



### Option 2, PLC + Touchscreen



### System Features

- Higher efficiency due to inverter, pressure sensor & flow meter
- Good system protection because there are mechanical protection & electrical protection
- Easy maintenance as there will be periodic reminder on HMI

## HIGH VACUUM ROOTS BLOWER



RNTP

### VACUUM

- Flow Capacity : 1.1 up to 141 m<sup>3</sup>/min
- Pressure : 0 up to -8 mbar
- Power Motor : 1.1 up to 250 kW

TYPE RNT		30.20	31.20	32.20	33.20	34.20	35.20	36.20
Max. Delivery	m <sup>3</sup> /min	4.03	7.31	21	27.5	40.35	63.4	92
Max. Delivery	m <sup>3</sup> /h	241.8	438.6	1260	1650	2421	3804	5520
Max. Speed	rpm	4725	4734	4736	3713	2950	2380	1675
Max. Vacuum	mbar	700	700	700	800	800	800	800
Max. Drive Power	KW	11	18.5	45	75	110	160	250
Connection Flang DN	mm	80	100	100	150	200	250	300
Weight	kg	67	112	198	315	428	670	1400

## VACUUM BOOSTER

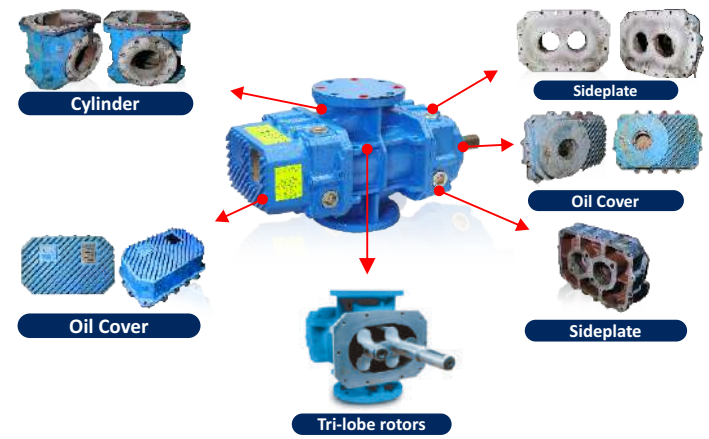
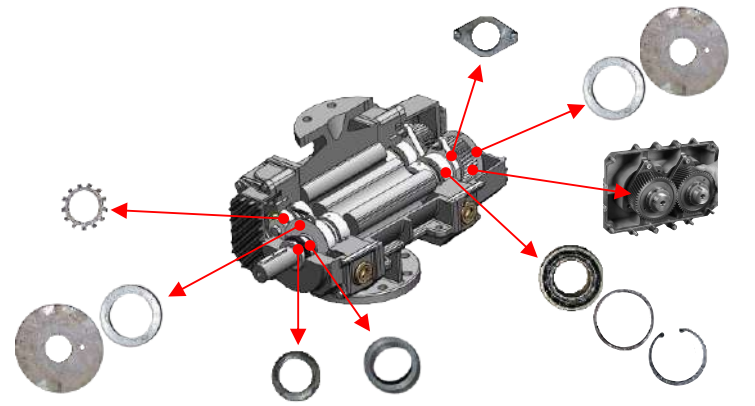
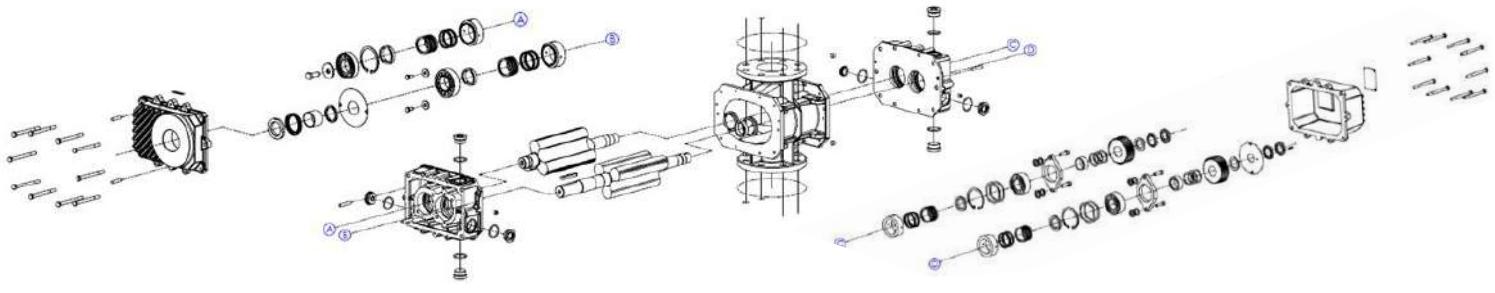


RVB

### VACUUM BOOSTER

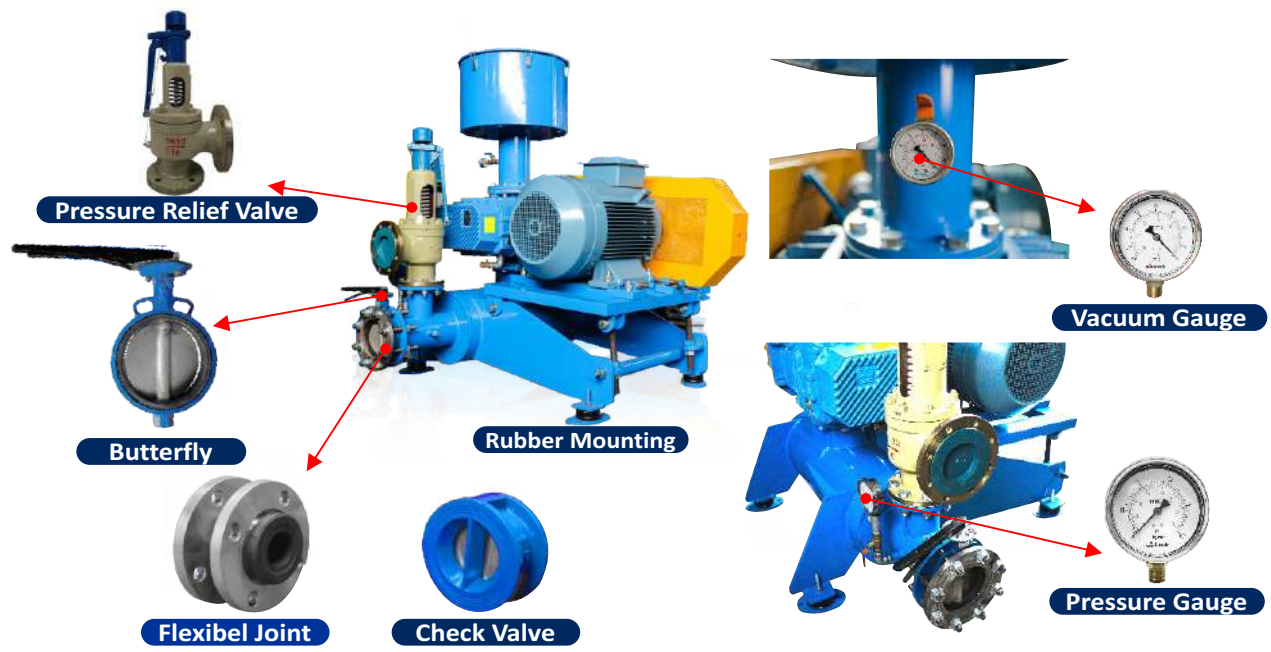
- Flow Capacity : 200 up to 15558 m<sup>3</sup>/h
- Pressure : -130 up to -30 mbar
- Power Motor : 0.8 up to 30 kW

TYPE		20.10	20.20	21.20	21.30	22.20	22.30	23.20	23.30	24.20	25.10	25.20	26.20	26.30	27.10	27.20
Rated suction flow	m <sup>3</sup> /h	200	280	500	740	1000	1430	2000	2880	3725	3725	7295	7954	9470	11515	15558
Rotation speed	min	2850	2850	2860	2860	2895	2895	2910	2910	2915	2915	2930	1460	1460	1465	1465
Max. pressure (difference with continuously)	mbar	130	80	80	80	80	66	50	40	50	50	50	50	40	40	30
Motor power	KW	0,8	1,1	2,2	3,0	4,0	4,0	5,5	7,5	11,0	11,0	18,5	22,0	22,0	30,0	30,0
Normal supply voltage, 50 Hz	V	230/400	230/400	230/400	230/400	230/400	230/400	230/400	400	400	400	400	400	400	400	400
Oil Capacity in oil box A/B	Ltr	0,7/1,1	0,7/1,1	1,22/1,75	1,22/1,75	1,75/2,75	1,75/2,75	3,4/5,3	3,4/5,3	5,5/9,4	5,5/9,4	8,3/15,8	18/30	18/30	30/38	30/38
Oil capacity shaft passage seal	Ltr	0,06	0,06	0,07	0,07	0,08	0,08	0,1	0,1	0,15	0,15	0,2	0,25	0,25	0,3	0,3
Consumption cooling water	Ltr/h	60	60	80	80	100	100	120	120	140	140	160	180	180	200	200
Weight Roots pump with motor	kg	73	85	130	158	240	270	360	400	580	580	850	1600	1700	2490	2690
Weight of pump (free shaft)	kg	62	76	115	135	208	245	320	360	460	460	710	1450	1550	2250	2450



- Description :**
- |                             |                  |
|-----------------------------|------------------|
| 1. Sealing Chamber          | 6. Oil Seal      |
| 2. Sealing Spacer           | 7. Gear          |
| 3. Bearing                  | 8. Internal Ring |
| 4. Oli Blower Synthetic 220 |                  |
| 5. Ring Piston              |                  |

## ACCESSORIES





## New Installation Of Pedro Gil



## Pedro Gil Installed at Existing Baseplate



**Baseplate Fabrication Process**



**Finish Product**



**Silent Box - Sound Enclosure**

## OUR STOCK





## SERVICE TOOLS



**Flir Thermal Imaging**



**Leak Detector**



**Flow Meter**



**Vibration Spectrum Analyser**



**SKF PULSE Vibration Sensor**



**SKF Shaft Alignment**



**Laser Alignment**



**Belt Tension**



**Non Destructive-Test (PT&UT)**



**Noise Checker**



**CMM**  
(Coordinate Measuring Machines)



**Bearing Heater**



**Insulation Test**



**Resistance Test**



**Clamp Meter Current Test**





**Roots Blower Rotor Gear, Analysis , Repair & Balancing Process**



**Sideplate, Bearing Housing Analysis & Repair Proces**



**Fabrication Sealing Kit**

**Roots Blower Assembly Process**



## Our Data Monitoring

- Vibration Monitoring
- Thermal Imaging
- Flow Measurement
- Pressure Sensor

**Our Testing Facility: Full Load with Inverter Maximum at 160 KW & Blower DN 400**

**WE SERVICES ALL BRAND ROOTS BLOWER**



**AERZEN**

**ROBUSCH**<sup>®</sup>

PUMPS • BLOWERS & COMPRESSORS

**hibon**



**KAESER**  
COMPRESSORS

*Atlas Copco*

CS instrument is founded in Germany in 2002. The name CS Instruments stands for proven and innovative measurement technology for compressed air and gases with subsidiaries and distributors all over the world



- Dew point measurement in the compressed air after adsorption dryer, membrane dryer, refrigeration dryer
- Pressure-tight up to 350 bar (special version)

## DEW Point Sensors



- Flow meter applicable in existing pipe from 1/2" to DN 1000



## Flow Sensors



- Read the operational DEW Point parameter with graphic display and touchscreen

## DEW Point Monitoring



- Mobile DEW Point device in a sturdy service case
- Intergrated DEW point sensors,
- Intergrated Pressure Sensor
- Intergrated Chart recorder

## Data Logger



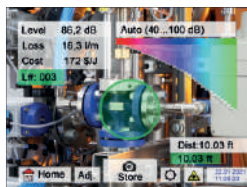
- For permanent and highly precise measurement of the vaporous residual oil content from 0.001 mg/m<sup>3</sup> to 2.5 mg/m<sup>3</sup>

## Oil Content Measurement

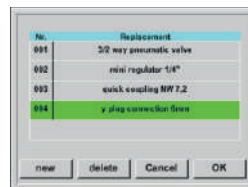


- Measuring system for recording
- Vapour and gas-containing
- hydrocarbons in compressed air

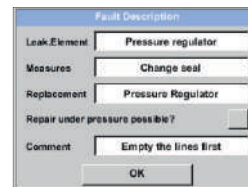
## Oil Check 400



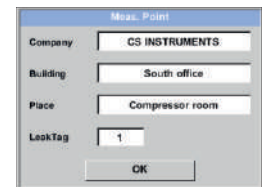
**DETECT A LEAK**  
The device indicates the leakage rate in (l/min or cfm).



**REMEDY THE LEAK**  
Efficiency and clarity also for elimination of leaks.



**DEFINE THE LOCATION**  
The location of each leak can be stored:  
Company / building / location



**SPARE PARTS LIST IN THE DEVICE**  
The software can be used to transfer a custom spare parts list to the device.

## Leak Detector

**\*Available For Rent**



**Welding Process**



**Powder Coating Process**



**Final Complete Set  
SERVICE TOOLS**



Rolling Machine



S.M.A.W



G.T.A.W



F.C.A.W/G.M.A.W



Powder Coating



Non Destructive-Test (PT&UT)

# FABRICATION PRESSURE VESSEL



- **Body & Shell :**  
A36/SS 400  
thickness up to 20 mm
- **Standard Design  
Pressure Vessel :**  
ASME VIII

- **Standard Welding  
Procedure Specification**  
ASME IX
- **NDT Test PT & MT**  
ASME VIII

- **Finishing By**  
Powder Coating/Spray Paint

# REWINDING & OVERHAUL ELECTROMOTOR



AC Electromotor



AC Slipping Motor



DC Motor



Generator



Transformer



Submersible Pump

## OUR SERVICES

Support by our experience engineer and technician, we perform rewinding and modification to all types of :

- AC Electromotor (LV, MV, HV)
- AC Slipping Motor
- DC Electromotor
- Generator
- Transformer
- Submersible Pump
- Traction Motor
- Redesign & Upgrade Capability

# ELECTRICAL PANEL



**AUTHORIZED PARTNER**





# PT. INTIDAYA DINAMIKA SEJATI



## Jakarta

Jalan Pangeran Jayakarta  
Ruko Blok 123 No. 41  
(021) 6000 8054

## Semarang

Perum Griya Bukit Jati Sari  
Blok C18 - Ungaran Timur  
(024) 7690 2512

## Surabaya

Jalan Sidoserma Indah I/11  
Kel. Sidodermo - Kec. Wonocolo  
(031) 9984 6910

## Jember

Jalan Mh. Thamrin Km 1  
Ajung - Kab. Jember  
(0331) 336 505

## Medan

0811 253 052

marketing@intidayads.com 0812 3785 5591

Authorized Distributor Service and Partner in Indonesia for :



# BECKER



# PEDRO GIL



# CS INSTRUMENTS