



**QUALITY,
EXCELLANCE &
COMMITMENT**

COMPANY PROFILE

Valnex Air-Cooled Chillers, with a standard cooling capacity of 2 tons to 40 tons, engineered, designed, and manufactured by Valnex Industries feature the evaporator, compressors, condenser, and operating controls in an integral skidded package. These chillers are ideal for industrial use. Our innovative chiller solutions are designed to bring efficient, reliable cooling to all types of commercial applications.

With the help of our team of professionals and creative designers, we have installed some of the required machines and equipment at our well-developed manufacturing unit to fabricate and assemble this broad range with supreme quality. Our creative designers and experts use new techniques and methods which are in compliance with the industry standards. These are thoroughly examined by our quality controllers at our well-established testing unit on various predefined parameters.

Further, we also offer customized options of these products as per the various detailed specifications of our clients. Our products used in various areas these are extremely cherished for their high rigidity, sturdiness, premium finish & high quality... Industrial chiller is built to maintain the temperature of water at a prescribed set temperature using refrigeration principle. The chiller consists of refrigeration system and water circulation system condense either water or air cooled, cooling fan, expansion device, water cooling heat exchanger etc.

Numerous industries, including chemical, defense, energy, food, medical, pharmaceutical, plastic, rubber, semiconductor, and tire, use air-cooled outdoor chillers for accurate temperature control.

*VALNEX'S UTMOST PRIORITY IS CUSTOMER
SATISFACTION THROUGH **QUALITY**,
EXCELLANCE & **COMMITMENT** IN
MANUFACTURING & SUPERIOR CUSTOMER
SERVICE THROUGH PRINCIPLES, PEOPLE,
PASSION & PROGRESS.*



AIR Cooled Water Chiller & Water Cooled Chiller



Technical Specification for Air Cooled Chiller

Model	VI 02A	VI03A	VI05A	VI06A	VI07A	VI08A	VI010A	VI015A	VI017A	VI024A	VI030A	VI040A	VI050A	VI060A
Cooling Capacity in TR	2	3.15	5	5.53	7.2	9.4	11.3	14.2	19.1	24.4	29.5	38.3	49.2	59
Compressor Quantity/KW	2.5	3.17	5.2	5.37	6.69	9.06	10.76	13.65	18.36	23.1	27.6	18.3 / 2	23.1 / 2	27.6 / 2
Refrigerant	R - 22 OR R-407													
Process Pump (KW)	0.46	0.96	1.1	1.1	1.1	1.5	1.5	2	2.2	2.2	3	4	5.5	7.5
Process Pump Flow (LPM)	55	105	150	150	230	230	230	230	230	230	380	480	480	880
Max. Pressure (Bar)	2.4	3	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	5.6	4.4
Water Tank (Ltr.)	40	100	100	100	150	150	150	200	200	200	300	500	500	1000
Fan Quantity / KW	1/0.25	1 / 0.8	2 / 0.5	2 / 0.5	2 / 1.2	2 / 1.2	2 / 1.2			4 / 3.2	4 / 3.2	6 / 4.8	8 / 6.4	8 / 6.4
Process Connection (In/Out) BSP	1"	1"	1"	1"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2 "	2 "	2 "	2 ½"
Length	1100	1600	1700	1700	1850	1850	1850	2100	2300	2750	2750	3350	3900	3900
Width	775	1025	1025	1025	1125	1125	1125	1475	1475	1705	1705	1705	2000	2000
Height	1300	1700	1700	1700	1750	1750	1750	1950	2100	2200	2200	2200	2350	2600
Weight (Kgs.)	150	500	500	500	700	700	700	900	1000	1100	1500	1600	2000	2200
Connected Load (KW)	3.21	4.93	6.8	6.97	8.99	11.76	13.46	18.05	23.68	28.5	33.8	45.4	58.2	69.1

Technical Specification for Water Cooled Chiller

Model	VI02W	VI03W	VI05W	VI06W	VI07W	VI08W	VI010W	VI015W	VI017W	VI024W	VI030W	VI040W	VI050W	VI060W
Cooling	2.7	3.47	5.82	6.44	8	10.43	12.4	15.67	21.3	27.5	32.7		55	65.5
Compressor Quantity/KW	2.35	2.2	3.8	3.98	5.17	6.56	8.05	10.2	14.15	18	21.5	43	18.1 / 2	21.5 / 2
Refrigerant	R - 22 OR R-407													
Process Pump (KW)	0.46	0.96	1.1	1.1	1.1	1.5	1.5	2	2.2	2.2	3		5.5	7.5
Process Pump Flow (LPM)	55	105	150	150	230	230	230	230	230	230	380	4	480	880
Max. Pressure (Bar)	2.4	3	4.6	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	480	5.6	4.4
Water Tank (Ltr.)	40	100	100	100	100	150	150	200	200	200	300	4.8	500	1000
Condenser Cooling Tower TR	5	5	8	10	10	15	20	30	32	35	40	500	70	85
Condenser Water Flow LPM	50	70	130	150	180	220	240	300	320	350	400	55	800	900
Condenser Water (In/Out) BSP	1"	1"	1"	1"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2 "	600	2 "	2 "
Process Connection (In/Out) BSP	1"	1"	1 "	1"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	1 ½"	2 "	2 "	2 "	2 ½"
Weight (Kgs.)	150	150	400	400	800	800	800	850	850	900	1300	2 "	2000	2000
Connected Load (KW)	2.35	3.16	4.9	5.08	6.27	8.06	9.55	12.2	16.35	20.2	24.5	2000	41.7	48.5

Hot Air Dryer



Technical Specification For Hot Air Dryer

Model	Capacity (liter)	Height (mm)	Width (mm)	Depth (mm)	Heater Capacity in KW	Blowing Power in Watts	Voltage
VAL - 50	60	1040	730	430	2.7	90	415 v 3ØØ
VAL - 100	100	1200	680	620	3.9	200	415 v 3Ø
VAL - 150	150	1234	1020	660	6	250	415 v 3Ø
VAL - 200	200	1390	1250	660	6	250	415 v 3Ø
VAL - 300	300	1640	1250	840	10	400	415 v 3Ø
VAL - 400	400	1840	1250	840	12	400	415 v 3Ø
VAL - 600	600	1910	1360	990	18	750	415 v 3Ø
VAL - 800	800	2260	1370	980	18	750	415 v 3Ø

Hopper Loader



Technical Specification For Hopper Loader

Model	VAL-02	VAL-07	VAL-14	VAL-85	VAL-12	VAL-32	Model Nomenclature
Loader / Receover Volume Liters	6	6	14	85	12	32	VAL-02 Single Phase Hopper Loader VAL 2 AB Single phase Hopper loader with ratio valve VAL-07 MC Three Phase Hopper Loader with Manual filter ceaning VAL-07 AC. Three Phase Hopper Loader with auto filter cleaning VAL-07 AB Three Phase Hopper loader with ratio
Loader Body Diameter mm+	203	203	304	635	254	381	
Loader Height mm	640	470	475	1155	690	900	
Material / Vacuum Line Size mm (inch)	40(1.5")	40-50-60 (1.5" -2" -2.5")		(2.5",3",4")	50-60-75 (2"-2.5"-3")		
Vacuum Blower Size Kw	0.9	0.9-1.5-2.2	4-5.5-7.5	7.5	4	7.5	
Nominal Throughput kg/hr.	30	150-200	600-750	1200	250	500	
Optional	Automatic filter cleaning/Ratio Valve / Positive discharge / Common line valve / Photo Electric Material Sensor / Intermediate Hopper						
Supply Voltage	230 v 1Ø	415 v 3ØØ	415 v 3Ø	415 v 3Ø	415 v 3Ø Ø	415 v 3Ø	
Compressed Air Requirement	28.3 Liters/min. @ 5.51 bars						

Mould Temperature Controller



Technical Specification for Mould Temperature Controller

Model	VAL-0-3	VAL-0-6	VAL-0-9	VAL-0-12	VAL-0-18	VAL-W-3	VAL-W-6	VAL-W-9	VAL-W-18
Circulating Media	Oil	Oil	Oil	Oil	Oil	Water	Water	Water	Water
Heating Capacity (kw)	3	6	9	12	18	3	6	9	18
Max. Temperature (°C)	180	180	180	180	180	95	95	95	95
Nominal Cooling Capacity (kw)	20	20	20	28	28	20	20	20	28
Pump Pressure (Bar)	3.8	3.8	3.8	5	5	3.8	3.8	3.8	5
Pump Motor (kw)	0.5	0.5	0.5	2.2	2.2	0.5	0.5	0.5	2.2
Flow Rate (LPM)	65	65	65	100	150	65	65	65	150
Tank Volume (Ltr)	16	16	16	45	45	16	16	16	45
Weight (kg)	60	60	60	100	120	60	60	60	120
Operating Voltage	415V,50Hz,3 Phase with Neutral and Earthing								
Control Volatage	230V								

Volumetric Feeder Master Batch Dosing System



Technical Specification for Volumetric Feeder

Code	Descripti on	Dosing Capacity kg/hour	Dosing Capacity Gram/sec
VAL 1	3/8 x 1/4	0.004 to 3.6	0.011 to 1
VAL 2	3/8 x 3/8	0.07 to 7.00	0.019 to 1.94
VAL 3	1/2 x 1/2	0.20 to 10.9	0.058 to 3.028
VAL 4	3/4 x 3/4	0.5 to 33.0	0.138 to 9.166
VAL 5	1 x 1	0.5 to 73.0	1.1 to 20

Hopper Capacity Liters	20
A	475
B	150
C	455
D	220
E	165
F	540
Feeder Weight (kg)	19
Control Panel Dimension	
Height	300
Width	230
Depth	160
Supply Voltage	(50/60 Hz) 230v AC
Total Running Amps	1A

Flake Cutter



Technical Specification for Flake Cutter

Model	VAL-230	VAL-300	VAL-400	VAL-500	VAL-600	VAL-800	VAL-960	VAL-10 HP	VAL- 15HP	VAL-20 HP
Grinding Chamber (mm)	230x200	310x200	410x240	510x300	610x330	815x470	960x610	360x260	420x280	480x330
Grinding Chamber (KG/H)	100-150	150-200	200-250	300-350	350-450	450-600	800-1000	150-250	200-300	250-350
Stationary Cutter	2	2	2	2	4	4	4	2	2	2
Rotary Cutter	6	9	12	15	18	24	30	18	21	24
Mesh Size (mm)	8	8	8	10	10	10	12	10	10	10
kw	4	5.5	7.5	11	15	22/30	37/45/57	7.5	10	15
HP	5	7.5	10	15	20	30/40	50/60/75	10	15	20
Dimension (LxWxH)	890x640x1145	1010x715x1300	1010x815x1330	1290x975x1670	1290x1075x1740	1735x1525x2180	1950x1760x2740	1090x870x1340	1290x995x1580	1435x1075x1775
Dimension for sp (mm)	1200x870x1510	1320x840x1580	1320x940x1640	1640x1080x1980	1940x1180x2050	1850x1540x2680	2050x1850x2860	1350x880x1550	1540x1020x1800	1600x1140x1960
Approx.N.W. (KG)	290	435	500	900	970	2000	3000	540	795	1040
Approx.N.W. for sp (KG)	400	435	604	900	1180	2380	3500	750	1180	1400
Maximum Cutting Thickness (mm)	4	5	6	7	8	10	14	1.5	2	2.2

Dehumidifier

Technical Specification for Dehumidifier

Sr No	DESCRIPTION	VI 2DH	VI 3DH	VI 5DH
1	MOISTURE EXTRACTION CAPACITY	30°C & 80% RH, 200 LIT/DAY	30°C & 80% RH, 300 LIT/DAY	30°C & 80% RH, 500 LIT/DAY
2	COVERAGE AREA (NON AC)	1600 SQ FT / 450m3	2400 SQ FT / 679m3	3000 SQ FT / 845m3
3	MOISTURE EXTRACTION CAPACITY	23°C & 60% RH, 100 LIT/DAY	23°C & 60% RH, 300 LIT/DAY	23°C & 60% RH, 250 LIT/DAY
4	COVERAGE AREA (AC W/O AHU)	800 SQ FT / 220m3	1200 SQ FT / 399m3	1500 SQ FT / 424m3
5	HUMIDITY CONTROL	UPTO 40% - DIGITAL 25%	UPTO 40% - DIGITAL 25%	UPTO 40% - DIGITAL 25%
6	COMPRESSOR	RECIPROCATING 3 PHASE	RECIPROCATING 3 PHASE	RECIPROCATING 3 PHASE
7	REFRIGERANT GAS	R22 OR R407	R22 OR R407	R22 OR R407
8	AIR FLOW (AXIAL FAN)	2500m3/hr	4000m3/hr	5400m3/hr
9	FILTER	20 MICRON	20 MICRON	20 MICRON
10	POWER	440V AC, 50Hz	440V AC, 50Hz	440V AC, 50Hz
11	NOISE LEVEL	83 DB	87 DB	90 DB
12	DRAIN FACILITY	YES	YES	YES
13	WATER TANK	YES (SS 304 -22 LIT)	YES (SS 304 -25 LIT)	YES (SS 304 -30 LIT)
14	STRUCTURE	SS 304	SS 304	SS 304
15	STRUCTURE DIMENSION	21.5" x 20.5" x 38.5"	24" x 21" x 40"	33" x 20.5" x 57"



Laser Marking Machine Online



Technical Specification for Laser Marking Machine Online

Model	VAL-30	VAL-50
Laser Type	Pulsed Fiber Laser	Pulsed Fiber Laser
Power	30 Watt	50 Watt
Cooling Type	Air-Cooled	Air-Cooled
Wavelength	1064nm	1064nm
Beam Quality	1.5	1.5
Repetotopm Frequency Range	0-200 Hz	0-200 Hz
Pulse Width	80-100ns	80-100ns
Pulse Duration	200ns	200ns
Beam Diameter	7mm	7mm
Polarization	Random	Random
Pulse Energy	0.5 - 1.0mj	0.5 - 1.0mj
Marking Type	ON THE Fly Marking	ON THE Fly Marking
Material Type	LLDP/DRIP/HDPE/PVC	LLDP/DRIP/HDPE/PVC
Max Line Speed	180/10/18-m/min*	180/10/18-m/min*
Marketing Visibility	Depend on the Material*	Depend on the Material*
Marking Area	150*150	150*150
Focal Distance	210mm 0-40°C	210mm 0-40°C
Z-axes Travelling	500 mm	500 mm
Operating Temp	0-40°C	0-40°C
Fume Extraction	Centrifugal Suction unit	Centrifugal Suction unit
Interface	Touch Control System	Touch Control System
Minimum Marking Height	0.1mm (depend on font type)	0.1mm (depend on font type)
Panel Cooling	AC panel Unit (Optional)	AC panel Unit (Optional)
Power Consumption	750 Watt	750 Watt
Main Supply	220Vac - 50-60HZ	220Vac - 50-60HZ
Standard User Interface	Laser Mark Software	Laser Mark Software
Optional User Interface	U-Disk	U-Disk
Single Line Width	0.01mm	0.01mm
Speed Synchronization	With Rotary encoder depend of the controller option	
Remote Option	Optional	Optional
Enclosure Type	with enclosure	with enclosure
Standard i/o Connectivity	USB	USB
Laser Source Expected Life	70000-100000 Hrs	70000-100000 Hrs
Power Protection	UPS	UPS
Optional Power Protection	UPS	UPS
Minimum Width	0.01 mm	0.01 mm
Repeated Precision	0.0001 mm	0.0001 mm
Location Red Light	with Red guide indication	with Red guide indication
Working Accuracy	0.19mm	0.19mm
Operating Panel	10" Touch Panel	10" Touch Panel





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