HPP

HYDRAULIC & PNEUMATIC PRODUCTS

www.hppgroup.in

About Company

Hydraulic and Pneumatic Products (HPP) is a leading name in the engineering field, offering high-performance solutions in hydraulics and pneumatics since 2013. Under the visionary leadership of our Managing Director, Mr. Prem Kumar Jha & Ms. Bhawna, we have consistently delivered quality-driven products that meet the dynamic needs of industries across worldwide. With a team of 30+ skilled workers, 15+ qualified office staff, and more than 5 dedicated departments, we ensure precision manufacturing, timely delivery, and unmatched customer support. Our in-house R&D team is constantly working to expand our product range and enhance performance to stay ahead of industrial demands.

Vision

To be recognized as a trusted leader in the hydraulic and pneumatic industry by consistently delivering cutting-edge solutions that power progress in manufacturing, automation, and heavy engineering sectors.

We Envision:

- Expanding our product portfolio with advanced technologies
- Becoming a preferred partner for OEMs and industrial users across India and beyond
- Driving growth through sustainable practices, skilled workforce, and continual improvement
- Creating a workplace that encourages teamwork, skill development, and innovation

Mission

At Hydraulic and Pneumatic Products, our mission is to design, manufacture, and deliver high-performance hydraulic and pneumatic solutions that enhance industrial productivity, safety, and reliability.

We are committed to:

- Providing customized, durable, and cost-effective engineering products
- Ensuring customer satisfaction through timely service and technical support
- Fostering innovation and quality in every product we deliver
- Building long-term partnerships with integrity and excellence

Industries We Serve

Manufacturing & Automation

Construction & Infrastructure

Mining & Heavy Engineering

Agriculture & Earthmoving

Automotive & Transportation

Energy & Utilities

Partner with Us

Hydraulic and Pneumatic Products invites you to partner with a company that believes in performance, reliability, and innovation. Whether you're looking for a trusted supplier or a complete system solution, HPP is your one-stop destination for hydraulic and pneumatic excellence. Let's engineer the future — together.

Director Message

We specialize in a wide variety of hydraulic and pneumatic components, designed for durability, efficiency, and reliability.

Since the inception of Hydraulic and Pneumatic Products in 2013, our vision has always been clear — to deliver reliable, high-quality engineering solutions that empower industries and build long-term trust with our clients.

What started as a modest venture has today grown into a multi-departmental organization with a skilled workforce, a diverse product range, and a reputation built on commitment, quality, and customer satisfaction. This journey would not have been possible without the dedication of our team of engineers, technicians, and support staff, and the unwavering trust of our clients and partners.

At HPP, we believe in continuous improvement, innovation, and customer-centric thinking. Whether it's a custom hydraulic power pack or a specialized rotary union, our goal is to provide solutions that add value and ensure performance in the most demanding environments.

Looking ahead, we are excited to further expand our product offerings and explore new technologies to serve emerging industrial needs. We are not just manufacturing components — we are building systems that move industries forward.

Thank you for being a part of our journey."

Warm Regards,
Prem Kumar Jha
Managing Director
Hydraulic and Pneumatic Products

Our Product Range

WATER COOLED OIL COOLER

A water-cooled oil cooler is a device used to cool oil in various systems, such as hydraulic systems, engine oil systems, and transmission systems. It consists of a heat exchanger that utilizes water as the cooling medium.

The advantages of using a water-cooled oil cooler include efficient heat transfer and the ability to maintain a consistent oil temperature, even under demanding operating conditions. By effectively cooling the oil, it helps prevent overheating, which can lead to lubricant breakdown, reduced system performance, and potential damage to components.

OUR RANGE IN WATER COOLED OIL COOLER

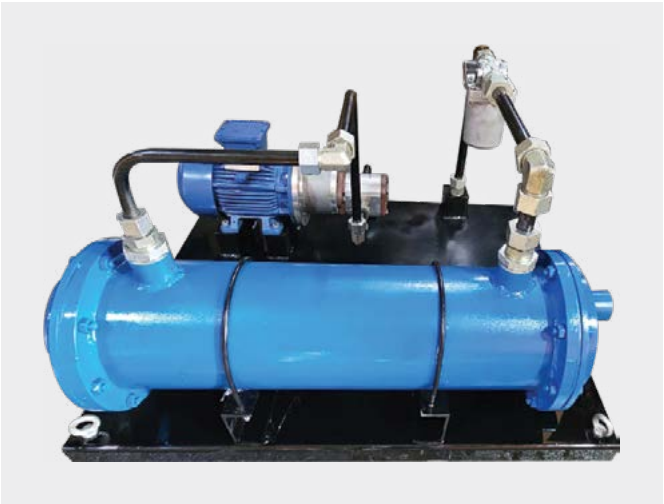
Flow Handling 3Ltr to 700Ltr
Heat Rejection up to 150000 Kcal/h
Dia 80mm to 750mm
Length 300mm to 10000mm

Water Cooler for Hydraulic Power Pack

Water Cooler for Hydraulic Power Pack

Water Cooler for Test Bench

Water Cooler for Turbine

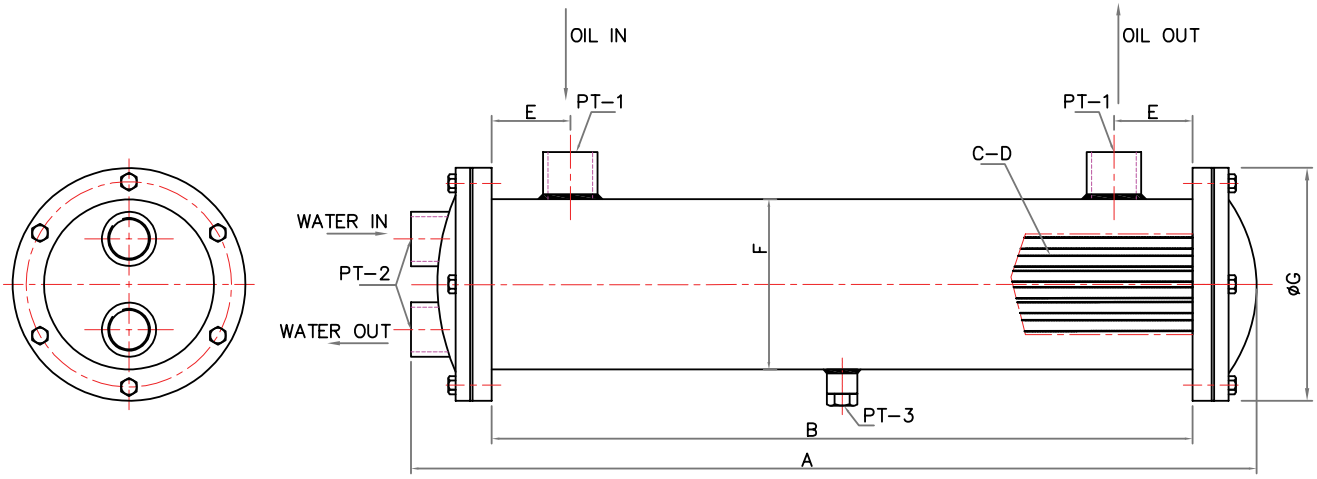


Water Cooled Oil Cooler – Offline Cooling

Water Cooled Oil Cooler – Offline Cooling

Heat Exchanger for Power Plants

Heat Exchanger for Power Plants



CAPACITY IN GALLONS	A (IN MM)	B (IN MM)	C	D (IN MM)	E (IN MM)	F (IN MM)	G (IN MM)	PT-1 (BSP)	PT-2 (BSP)	PT-3 (BSP)	SUITABLE FOR MOTOR H.P.
HPP-5	525	427	24	9.5	65	140	190	3/4"	3/4"	3/8"	5 H.P.
HPP-8	700	512	24	9.5	65	140	190	3/4"	3/4"	3/8"	10 H.P.
HPP-11	750	680	48	9.5	65	167	236	1"	1"	1/2"	12.5 H.P.
HPP-17	906	837	48	9.5	65	167	236	1"	1"	1/2"	15 H.P.
HPP-21	1106	1037	48	9.5	65	167	236	1.1/4"	1"	1/2"	20 H.P.
HPP-28	853	737	100	9.5	75	220	275	1.1/2"	1.1/4"	3/4"	25 H.P.
HPP-38	1103	987	100	9.5	75	220	275	2"	1.1/4"	3/4"	30 H.P.
HPP-50	1303	1187	100	9.5	75	220	275	2"	1.1/4"	3/4"	40-50 H.P.
HPP-60	1703	1587	100	9.5	75	220	275	2.1/2"	1.1/4"	3/4"	60 H.P.

A - OVER ALL LENGTH | B - LENGTH OF COPPER TUBE LENGTH | C - NO. OF COPPER TUBES
D - DIA OF COPPER TUBES | F - DIA OF SHELL | G - DIA OF FLANGES
WORKING PRESSURE - 12 BAR

HYDRAULIC POWER PACK

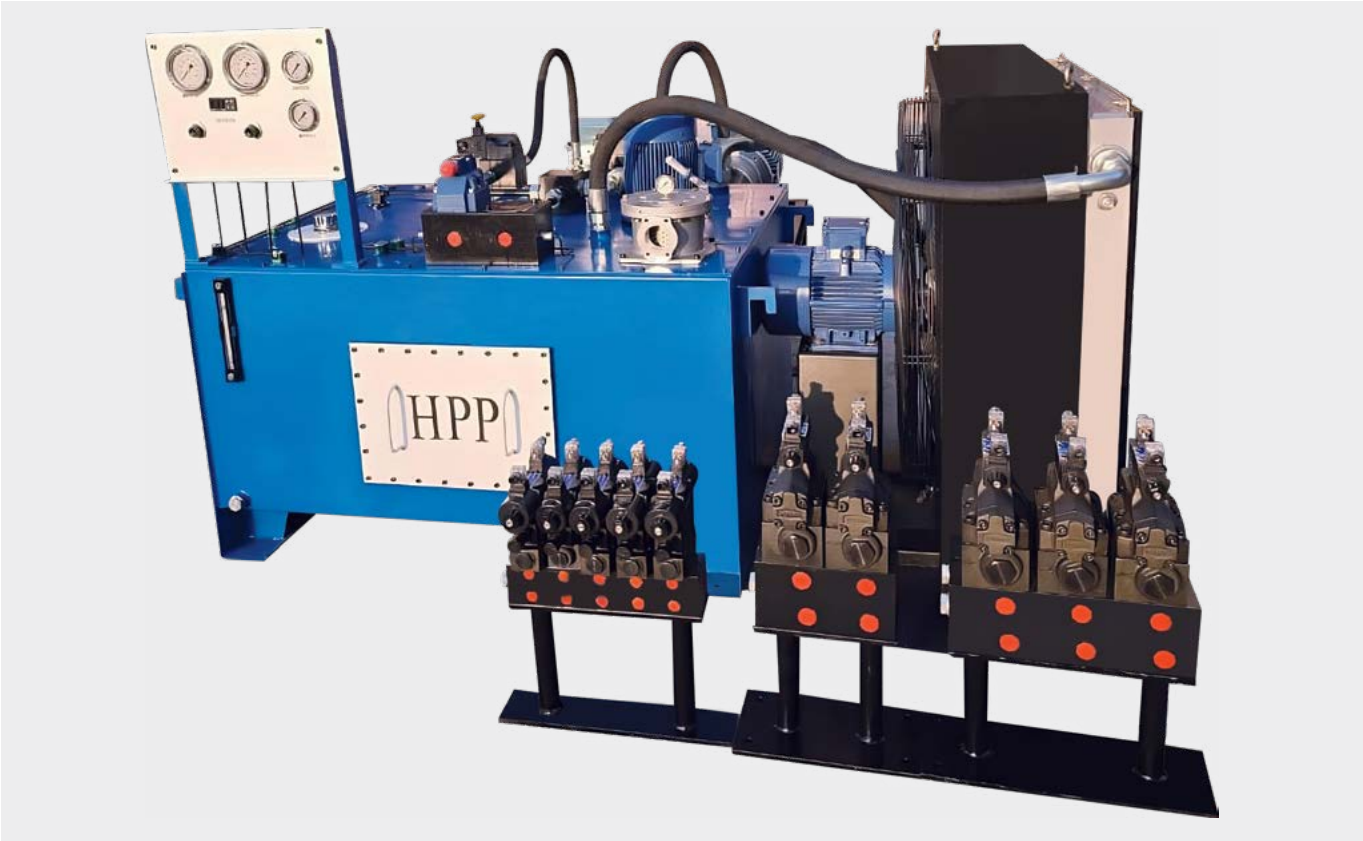
Our Hydraulic Power Packs are compact, efficient, and designed to handle a wide range of industrial applications. These systems are built using high-quality components, ensuring maximum performance and durability. Available in both standard and custom configurations, our power packs are widely used in presses, injection molding machines, material handling, and lifting systems etc. Key features include modular design, ease of maintenance, low noise levels, and reliable pressure control. Whether you need a mobile or stationary unit, we offer optimized solutions tailored to your operational requirements.

Features:

- Easy to Installation
- Maximum Performance
- Low Operating Cost
- Long Lasting
- Corrosion Resistant

OUR RANGE IN HYDRAULIC POWER PACK

Tank Capacity - 30 Ltr up to 6000 Ltr
Motor Capacity - 0.5 HP – 225 HP
Pump Flow Up to 600Ltr
Cooling Unit - Water-Cooled Oil Coolers / Air-Cooled Oil Coolers
Working Pressure – 0 -700 Bar
With Electric Control Panel
Current Type - AC / DC



Hydraulic Power Pack for Rolling Mill Industry

Hydraulic Power Pack for Rolling Mill Industry

Hydraulic Power Pack for Hydro Testers – Single Tube

Hydraulic Power Pack for Hydro Testers – Triple Tube

Hydraulic Power Pack for Ingot Cutting Machine

Hydraulic Power Pack for Straightening Machine

Hydraulic Power Pack for Double Blade Machine

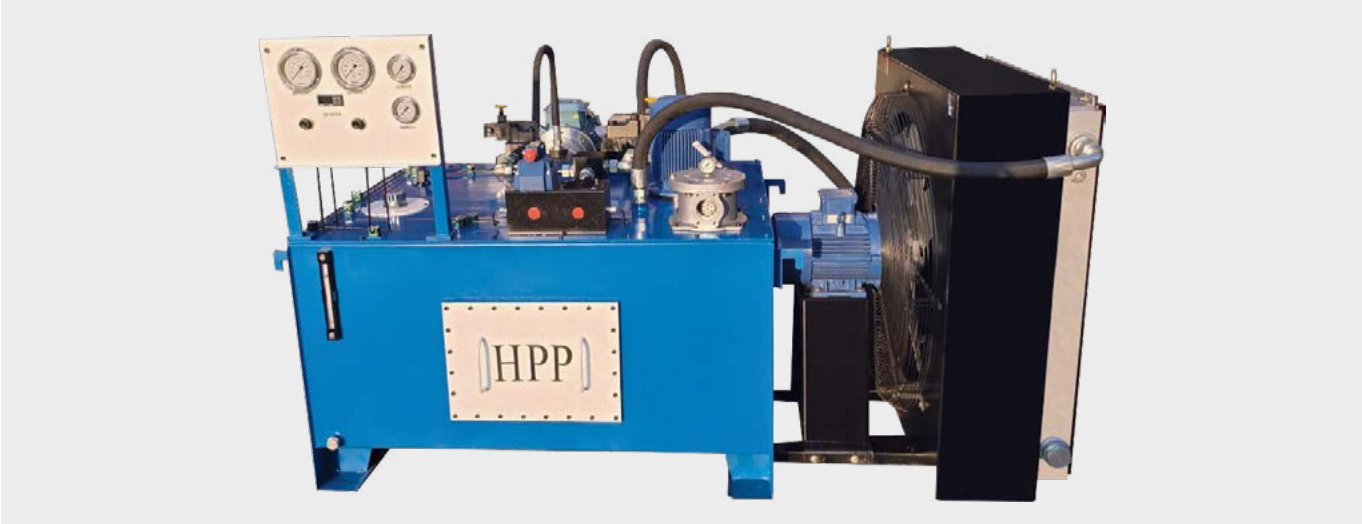
Hydraulic Power Pack for Injection Moulding Machine

Hydraulic Power Pack for Push Pointer

Hydraulic Power Pack for Sugar Mill Industry

Hydraulic Power Pack for CNC Clamp/De-Clamp

Hydraulic Power Pack for Hydraulic Press



Hydraulic Power Pack For Hydro Tester

HYDRAULIC CYLINDER

We manufacture a comprehensive range of Hydraulic Cylinders and Jacks engineered for strength, precision, and long service life. Our products are available in single-acting, double-acting and customized designs to suit various applications and different industries. These cylinders are used in industrial automation, construction equipment, presses, and mobile hydraulics. Each unit is built with high-grade seals and chrome plated rods to prevent rusting, leakage and ensure smooth operation under high pressure. With stringent quality control, our hydraulic cylinders deliver consistent performance even in the most demanding environments.

Features:

- Easy to Installation
- Maximum Performance
- Low Operating Cost
- Long Lasting
- Corrosion Resistant

OUR RANGE IN HYDRAULIC CYLINDER

Type- Single acting / Double acting
Bore size- 32mm - 800mm
Stroke Length- 5mm - 6000mm
Working Pressure- 700 Bar Max.
With reputed imported seals
Design- Tie Rod, Welded, Mobile Design etc
Mounting Type – Front Flange, Rear Flange, Eye Mounting, Trunnion Mounting, Both End Rod Shaft, etc.

Hydraulic Cylinder - Front Trunnion

Hydraulic Cylinder - Front Flange Mounting

Hydraulic Cylinder – Rear Clevis (Double Eye)

Hydraulic Cylinder - Customize

Hydraulic Cylinder - Center Trunnion with Tie Road Design

Hydraulic Cylinder - Tie Rod Design Front Flange

Hydraulic Cylinder - for Hydraulic Press

Hydraulic Cylinder - Welded Design Round Flange

PNEUMATIC CYLINDER

Our Pneumatic Cylinders are corrosion-resistant, and work efficient. They are ideal for automation processes, packaging machinery, and assembly lines. We offer ISO-standard cylinders in various bore sizes and stroke lengths. These cylinders are designed for fast cycling and low maintenance. We are delivering in MS and aluminum bodies, chrome plated rods, and durable seals. With both compact and heavy-duty versions available, our pneumatic cylinders provide excellent control and repeatability in high-speed operations.

Features:

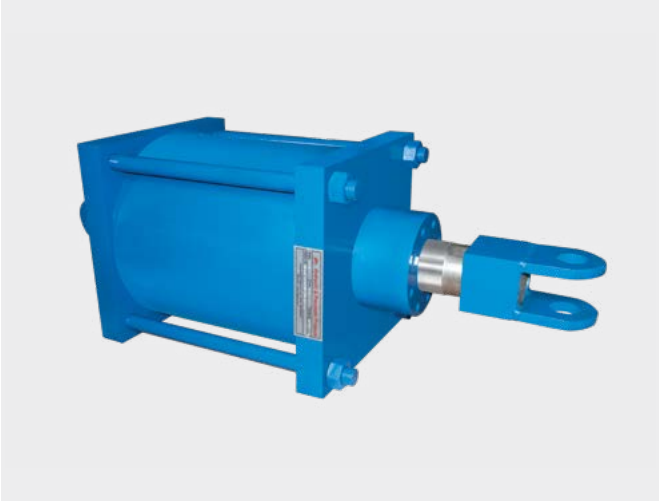
- It is cost effective
- Long Lasting
- Corrosion Resistant
- Custom compact designs.

OUR RANGE IN PNEUMATIC CYLINDER

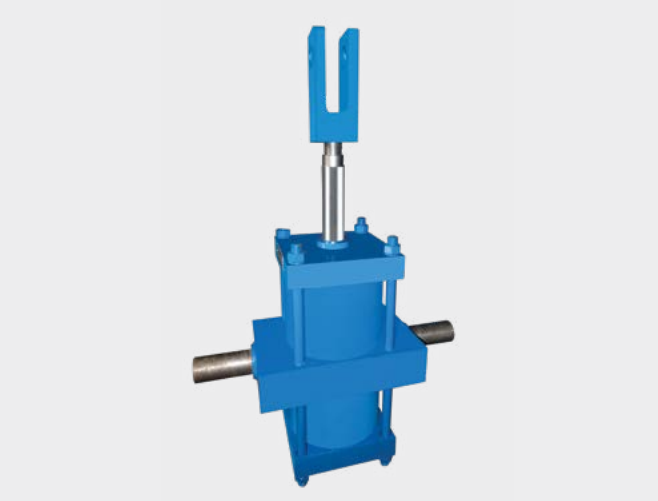
Type- Single acting / Double acting
Bore size- 32mm - 600mm
Stroke Length- 5mm - 8000mm
Working Pressure- 5 to 35 Bar Max.
With reputed imported seals
Design- Tie Rod, Welded, Mobile Design etc
Mounting Type- front flange, rear flange, eye mounting, etc.

Pneumatic Cylinder – Rear Flange with Fork

Pneumatic Cylinder - Rear Clevis



Pneumatic Cylinder – Tie Rod Design with Clevis



Pneumatic Cylinder – Center Trunnion with Clevis

Pneumatic Cylinder – Rear Clevis with Eye

Pneumatic Cylinder – Rear Clevis with Eye Welded Design

INTENSIFIER
DEAERATING VALVE AND FILLING VALVE

A HPP hydraulic intensifier is a device used to boost the pressure of hydraulic fluid. It takes in fluid at a lower pressure and pushes it out at a much higher pressure. If the normal pressure isn't strong enough for a job, this machine boosts it to make it more powerful.

It's used in machines that need high pressure for tasks like punching, pressing, or bursting. This way, there's no need to install a big and costly high-pressure pump.

In simple words, it's a small tool that helps give more power when needed.

Features:

Converts low pressure into high pressure.

- Works using Pascal's Law (pressure is transmitted equally in all directions)
- Saves cost by avoiding the need for large pumps.
- Common in industries like metalwork, manufacturing, and automotive.

Deaerating Valve

Removes trapped air or gas from liquid systems like water or oil pipelines, preventing noise, blockages, and damage. Common in heating, hydraulic, and water supply systems.

Key Features:

- Eliminates air to ensure smooth flow
- Boosts system efficiency
- Protects pumps and machinery
- Available in manual or automatic types

Filling Valve

Our Filling Valve ensures safe and efficient water or fluid entry during hydro testing. It prevents air pockets and pressure surges, making it ideal for pipelines, pressure vessels, and industrial fluid systems.

Key Features:

- Smooth, controlled fluid filling
- Prevents air lock / Handles high pressure
- Leak-proof & corrosion-resistant design

Applications:

- Pipeline Testing
- Pressure Vessel Testing
- Fluid System Testing
- Valve & Fitting Testing

HYDRAULIC PRESS

A hydraulic press is a device using a hydraulic cylinder and hydraulic power pack to generate a compressive force for pressing something. Hydraulic presses are commonly used for forging, clinching, moulding, blanking, punching, deep drawing, and metal forming operations

Features:

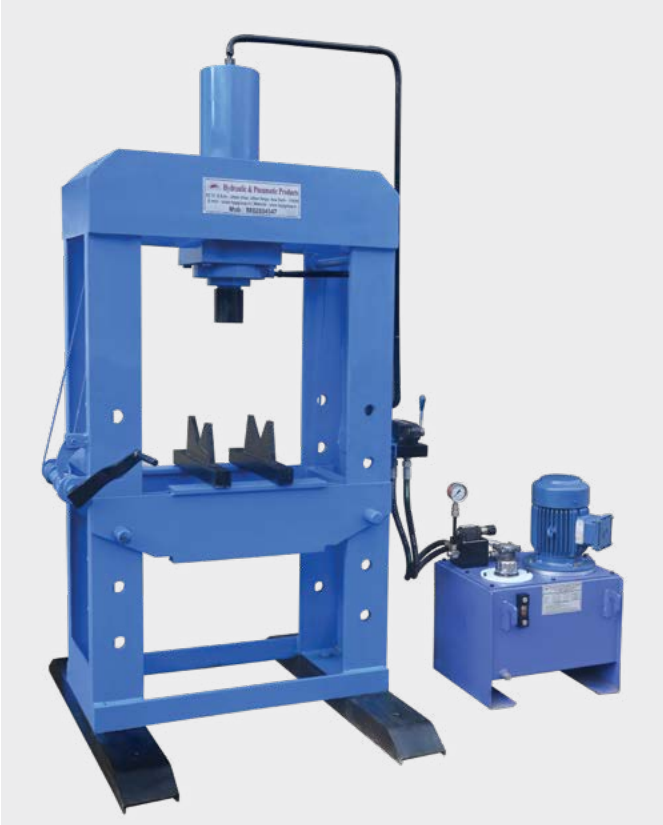
- Easy to installation
- It is cost effective.
- It is appropriate for Heavy Industries.
- Long Lasting
- Corrosion Resistant
- Custom compact designs.

OUR RANGE IN HYDRAULIC PRESS

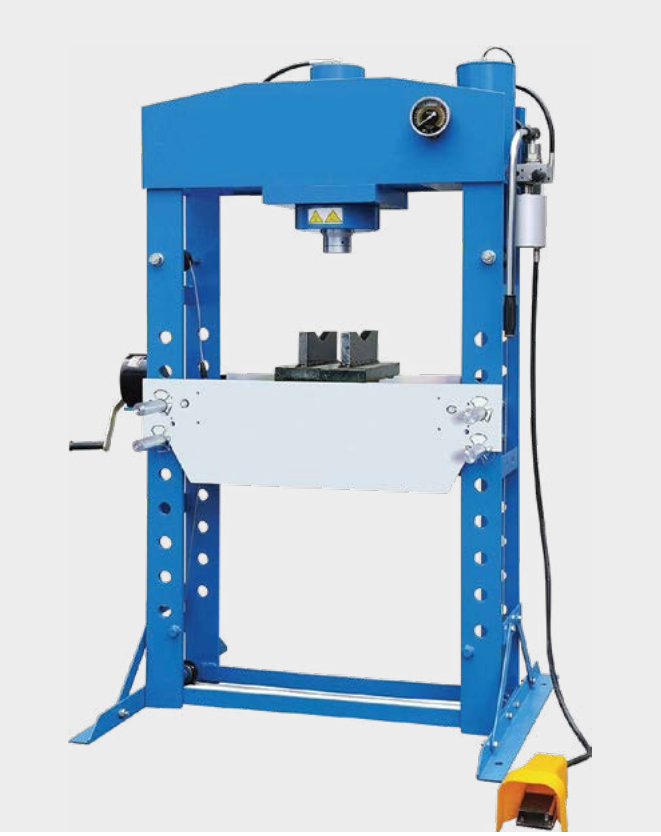
Four-column hydraulic press
Single column hydraulic press (C type)
Horizontal hydraulic press
Universal hydraulic press

Hydraulic Press for LPG Cylinder Crushing

Hydraulic Press H-Type – 100 Ton



Hydraulic Press for Automobiles



Hydraulic Press H-Type – 20 Ton

HYDRAULIC
PAPER MILL SYSTEM

HPP is a leading manufacturing company offering a wide range of hydraulic systems for paper Mill Industries. We are engaged in manufacturing Hydraulic cylinders, Hydraulic power packs, control panels and piping and fitting at site. Our delivered products are long lasting, corrosion resistance with branded components. We are using optimum quality materials and precisely engineered to meet the requirements of various industries.

Features:

- Easy to installation
- It is cost effective.
- It is appropriate for Heavy Industries.
- Long Lasting
- Corrosion resistant
- Custom compact designs.

OUR RANGE IN HYDRAULIC SYSTEMS FOR PAPER MILLS

Tank Capacity-30 Ltr Upto 3000Ltr

Motor Capacity-0.5 HP- 50 HP

Cooling Unit-Water Cooled Oil Coolers / Air Cooled Oil Coolers

Working Pressure – 0-700 Bar

With Electric Control Panel

FOR PAPER MILLS

2-Station Electric Control Panel

Paper Mill System

5-Station Electric Control Panel

INDUSTRIAL HYDRAULIC JACK

A hydraulic jack is a device that allows heavy loads by using force. The primary mechanism depends on the type of jack. These Hydraulic jacks can lift the heavy loads. Designs from our Industrial Hydraulic jacks are used in construction sites, cement plants, different mills, railways sites and many other industries.

Features:

- Easy to installation
- It is cost effective
- It is appropriate for Heavy Industries.
- Long Lasting
- Corrosion Resistant
- Custom compact designs.

OUR RANGE IN INDUSTRIAL HYDRAULIC JACK

Type- Single acting / Double acting

Capacity - 5Ton - 1000 Ton

Working Pressure-700 Bar Max.

With Reputed Imported Seals

Design- As Per Customer's Requirement

SINGLE & DOUBLE ACTING

Hydraulic Jack 300 Ton Double Acting with Hydraulic Power Pack

Hydraulic Jack 100 Ton Single Acting With Hand pump

Hydraulic Jack – 25, 50, 100 Ton Single Acting with Hand Pump

Hydraulic Jack – 200 Ton Double Acting with Hand Pump

Hydraulic Jack – 50 Ton Single Acting with Hand Pump

Hydraulic Jack – 10 Ton Single Acting with Hand Pump

HYDRAULIC ROTARY UNION

Hydraulic Rotary Unions from HPP are engineered for the smooth transmission of hydraulic fluid from a stationary source to a rotating component. Designed to handle high pressures and multiple fluid passages, our rotary unions are used in rotating tables, clamping systems, and automated machinery. Precision seals, hardened components, and compact designs ensure leak-free and maintenance-friendly performance. Custom models are also available to meet specific dimensional or operational needs.

Features:

- Handles Water, Oil & Air
- Custom Sizes
- Strong Build
- Long Lasting
- Flexible Design
- Reliable Bearings

OUR RANGE IN HYDRAULIC ROTARY UNION

From small units up to 2 inches
Water, Hydraulic oil, and air
Single passage rotary unions
Double passage rotary unions
Standard bearings and Graphite bearings

Rotary Union

Rotary Union

Multi Port Hydraulic Rotary Union

Rotary Union

Rotary Union

Rotary Union

WORM GEAR SCREW JACK

Our Worm Gear Screw Jacks are robust mechanical actuators designed for accurate lifting, positioning, and aligning of heavy loads. These jacks convert rotary motion into linear motion and are widely used in steel plants, conveyors, aircraft maintenance systems, and stage equipment. Built with high-strength worm gears, anti-backlash options, and load-holding capabilities, our screw jacks are available in multiple configurations including upright, inverted, and double jack systems. With manual, motorized, and servo-driven input options, they offer exceptional versatility and reliability.

Preliminary Selection Guide – SWJM SERIES

Translating Screw Type-1 Design A	Translating Screw Type-1 Design B	Rotating Screw Type-2 Design A	Rotating Screw Type-2 Design B
			

Model Capacity (Tonnes)		0.5	1	2	2.5	5	10	15	20	25	30	35	50	75	100	150
Max. Lifting Force (kN)		5	10	20	25	50	100	150	200	250	300	350	500	750	1000	1500
Lifting Screw Dia & Pitch (mm)		18×4	22×5	30×6	30×6	40×7	58×12	60×12	65×12	90×16	95×16	95×16	120×16	120×16	160×20	180×25
Worm Gear Ratio	Normal	10:1	5:1	6:1	6:1	6:1	6:1	6:1	8:1	32:3	32:3	32:3	32:3	32:3	12:1	12:1
	Slow	20:1	20:1	24:1	24:1	24:1	24:1	24:1	24:1	24:1	32:1	32:1	32:1	32:1	36:1	36:1
Lift per Turn – Normal (mm)	Normal	0.4	1	1	1.0	1.167	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.667	2.08
	Slow	0.2	0.25	0.25	0.250	0.292	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.566	0.694
Max Power Input (kW)	20% Duty	0.12	0.24	0.45	0.55	1.1	2.6	2.6	3.7	4.8	4.8	6.0	7.4	9	12.5	25
	10% Duty	0.17	0.32	0.45	0.55	1.1	2.6	3.7	5.2	6.7	6.7	6.7	8.4	10.4	13.5	17.5
Total Efficiency Rating (%)	Normal	27.2	27	26.4	23.2	21	23	22	21.5	20	19	19	18	15	15	15
	Slow	20	16	16	13.6	16	16	16	15	12	12	11.0	10.0	10	9.0	15
Screw Torque (Nm)	At Max. Lift	8.8	17.3	44.6	60	153	465	717	1009	1725	2148	2148	2500	4236	6630	11116
Max. Permissible Torque (Nm) At Driving shaft		12	20.5	36	46.5	92	195	195	280	480	480	705	840	1200	2660	4220
Weight Without Screw & Protection Tune (kg)		1.2	1.2	7.3	7.3	16.2	25	25	36	70.5	70.5	87	176	538	538	538
Weight per 100 mm Screw		0.14	0.17	0.32	0.45	0.82	1.67	1.8	2.15	4.15	4.62	5.20	7.70	8.62	13.82	18.6

SELECTION OF APPROPRIATE SCREW JACK

The technical characteristics required of each screw jack need to be studied. While selecting the screw jack following criteria is used:

1. Always take a screw jack of greater capacity than actually required.
2. Verify the buckling force on the lifting screw in case the load exerts compressive force on screw.

$$P_c = \frac{\pi^2 E \cdot 0.05 d^4}{L^2}$$

Pc = Critical Load × safety coefficient (Between 3 & 5)
E = Elastic modulus of screw material (Generally = 2 × 10^5)
L = Distance between guiding point of lift screw where the load is guided.
For Free/Unguided Loads take L = 2 × Stroke Length required.

3. Calculate the power absorbed by the Jack by applying the following formula:

$$P(HP) = \frac{4500 \times \text{Efficiency of Jack}}{\text{Load (Tons)} \times \text{Lifting Speed (mm/min)}}$$

Verify that this power does not exceed the maximum indicated power of the screw jack. If the same is greater you need to select the greater capacity jack or else lessen the lifting speed.

4. Incase where several jacks are to be used in tandem apply the following formula to calculate power required:

$$\text{Total P (HP)} = \frac{\text{P absorbed by each jack x numbers of jacks required}}{\text{Overall efficiency of installation* x Efficiency of Angle Drives**}}$$

* For 2 Jacks = 0.95, for 3 Jacks = 0.9, for 4 Jacks = 0.85,
** For 6 Jacks = 0.80
Take 0.90 per angle drive.

5. Verify maximum lifting speed V in mm/min.

$$V\ (\text{mm/min}) = 4.5 \times 10^3 \times \frac{\text{Max power per Jack (HP)} \times \text{Efficiency of Jack}}{\text{Load per Jack (Tons)}}$$

Notes:

1. To restrain horizontal stress or to reduce the radial play of the lifting screw, optional second guide ring can be provided upon request.

2. If the jacks are to be subjected to vibrations, take a greatest reduction ratio or slower raise speed.

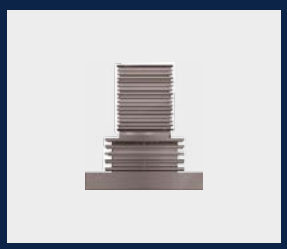
Order Information

JACK SERIES	CAPACITY		GEAR RATIO	
	METRIC TONS	KN	NORMAL	SLOW
SWJM	0.5	0005	10:1	20:1
SWJM	1	0010	5:1	20:1
SWJM	2	0020	6:1	24:1
SWJM	2.5	0025	6:1	24:1
SWJM	5	0050	6:1	24:1
SWJM	10	0100	6:1	24:1
SWJM	15	0150	6:1	24:1
SWJM	20	0200	8:1	32:1
SWJM	25	0250	32:3	32:1
SWJM	30	0300	32:3	32:1
SWJM	35	0350	32:3	32:1
SWJM	50	0500	32:3	32:1
SWJM	75	0750	32:3	32:1
SWJM	100	1000	12:1	36:1
SWJM	150	1500	12:1	36:1

HEADS







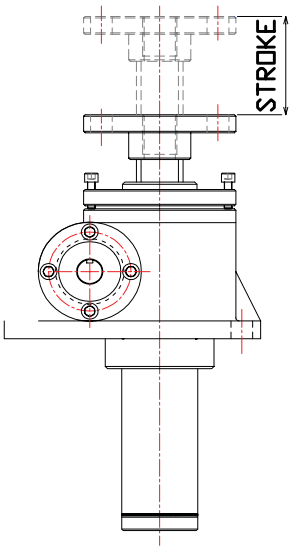

MODEL	TYPE	DESIGN	0025	GEAR RATIO	STROKE	HEAD	ACCESSORIES
SWJM	2	A	2.5TON	6:1	200M	TYPE-II	HAND WHEEL

TYPE-1
Translating Screw

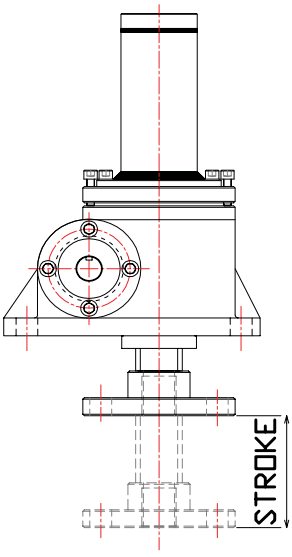
TYPE-2
Rotating Screw




DESIGN - A

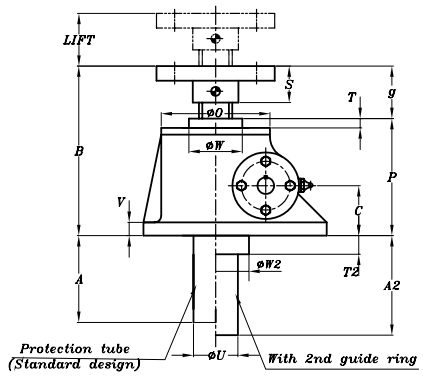


DESIGN - B

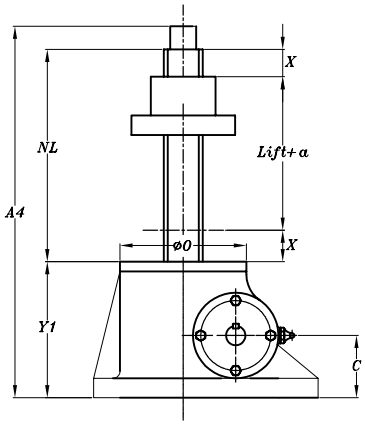


Dimensions Drawing - Type 1 & Type2

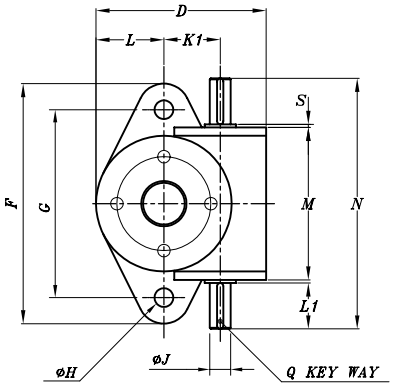
Type 1 Design A



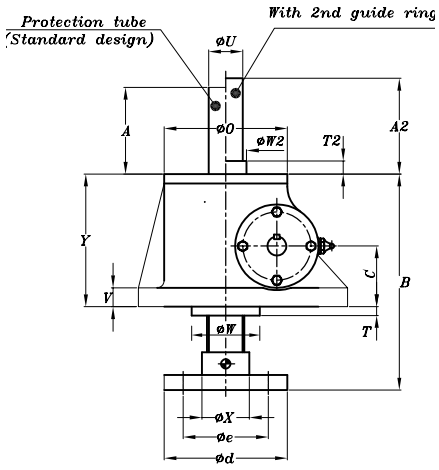
Type 2 Design A



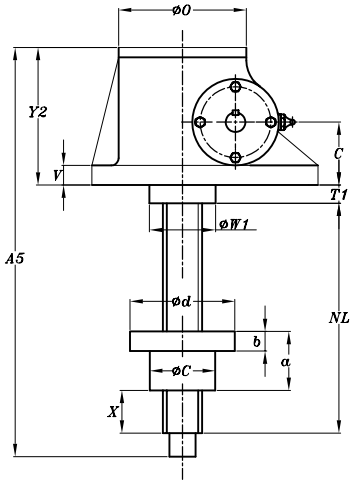
ONLY FOR SWJM-0.5



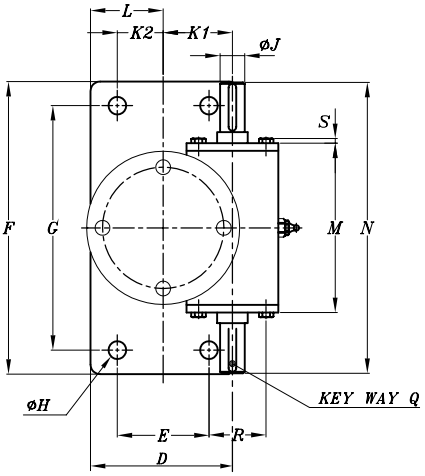
Type 1 Design B



Type 2 Design B

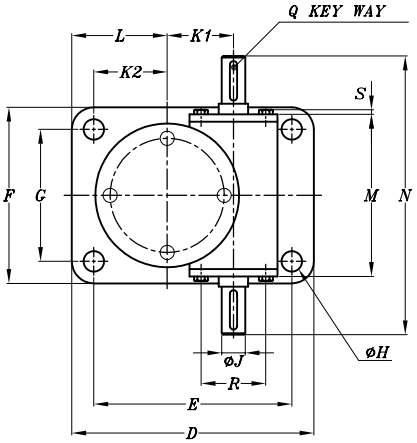


ONLY FOR SWJM-2

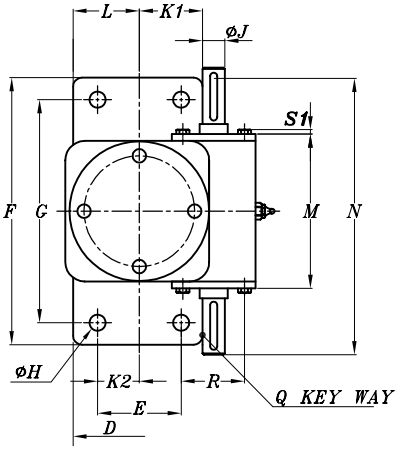


ONLY FOR SWJM

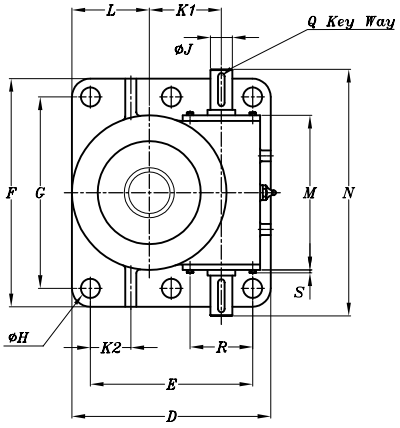
2.5, 5,10,15,20, 25, 30, 35 & 75



ONLY FOR SWJM-50



ONLY FOR SWJM-100-150

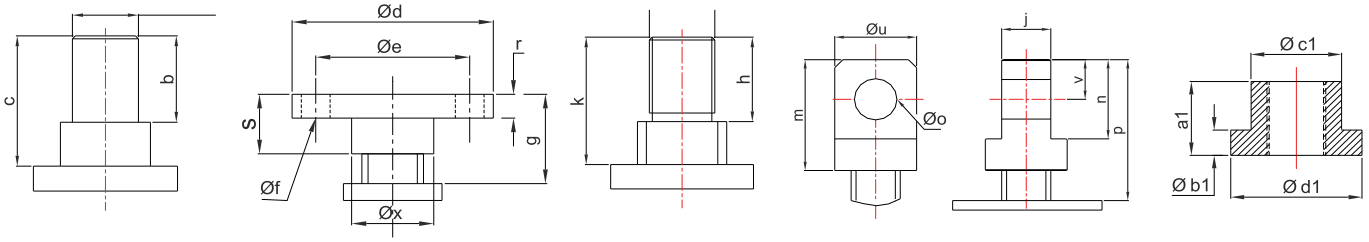


Dimensions Drawing

Frame Size	0.5	2	2.5	5	10
A	LIFT + 20	LIFT + 20	LIFT + 20	LIFT + 20	LIFT + 20
A2	LIFT + 50	LIFT + 50	LIFT + 50	LIFT + 50	LIFT + 50
A4	LIFT + 166	LIFT + 214	LIFT + 270	LIFT + 335	LIFT + 404
A5	LIFT + 188	LIFT + 227	LIFT + 238.5	LIFT + 300	LIFT + 359
B	105.5	139	150	193	230
C	32	44	45	61.5	70
D	81.5	100.5	165	210	235
E	-	57	135	168	190
F	115	182	120	154	200
G	90	152	90	114	155
ØJK6	10	14	16	20	25
K1	27	45	45	56.2	66.8
K2	–	28.5	50	58	63.5
L	32.5	47	65	80	86
M	73	100.5	120.5	150	174
N	120	180	190	227	280
NL	LIFT + 72	LIFT + 80	LIFT + 85	LIFT + 110	LIFT + 125
ØO	65	98	98	122	150
P	75.5	101.5	10.5	142	156.5
Q	3×3×20	5×5×28	5×5×30	6×6×32	8×7×45
ØR	–	53	53	65	76
S	1.5	6	5.5	6	7
T	5.5	8.5	8	6.5	8
T1	22.5	24	26.5	30	34
T2	11.5	20	20	25	18
T4	0	0	0	0	0
ØU	26.7	48.3	48.3	60.3	76
V	10	13	16	22	30
ØW	36	40	55	83	110
ØW1	36	40	55	83	110
ØW2	45	60	75	95	130
X	35	95	100	115	150
Y	70	93	100	115	150
Y1	74	95	100	129	160
Y2	70	93	100	129	150

20	25	35	50	100	150
LIFT + 20	LIFT + 20	LIFT + 20	LIFT + 65	LIFT + 65	LIFT + 65
LIFT + 65	LIFT + 65	LIFT + 65	LIFT + 65	LIFT + 65	LIFT + 65
LIFT + 476	LIFT + 535	LIFT + 643	LIFT + 802	LIFT + 802	LIFT + 802
LIFT + 513	LIFT + 580	LIFT + 675	LIFT + 812	LIFT + 812	LIFT + 812
262	317	350	400	500	550
87	102	115	130	170	170
295	350	430	260	540	540
240	280	360	150	440	440
215	260	280	500	620	620
160	190	210	400	520	520
28	35	38	40	60 m6	47–62 K6
72.5	97	120	137	196	196
95	95	135	75	160	160
122.5	130	170	130	210	210
213.5	245	265	320	420	420
322	355	430	560	670	670
LIFT + 150	LIFT + 170	LIFT + 205	LIFT + 225	LIFT + 300	LIFT + 300
185	205	260	300	440	440
186	225	250	275	360	360
8×7×45	10×8×50	10×8×50	12×8×80	18×11×90	18×6×75
90	110	132	115	168	168
10	10	12	14	14	14
9	10	12	14	20	20
39	52	45	29	43	43
31	40	43	10	20	20
0	0	0	0	0	0
88.9	114.3	141.3	168.3	219.1	219.1
40	55	65	80	100	100
140	160	180	240	280	280
140	160	180	240	280	280
150	159	200	220	220	220
176	217	240	260	360	360
176	217	240	260	360	360
194	226	289	383	383	383
181	211	250	292	360	360

Dimensions Drawing



HEAD TYPE - I **HEAD TYPE - II** **HEAD TYPE - III** **HEAD TYPE - IV** **TRAVEL NUT**

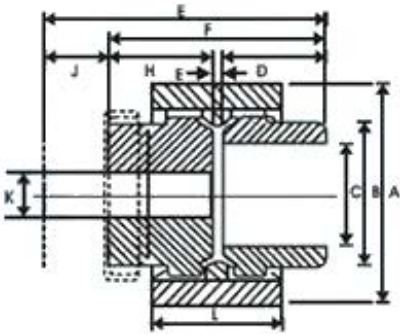
Capacity In Metric Tons		0.5	2	2.5	5	10	20	25	35	50	100	150
HEAD I	Øa	12	18	20	25	40	50	70	80	100	140	150
	b	20	30	30	40	50	60	63	80	125	175	175
	c	30	46	45	51	73.3	80	92	100	150	200	225
HEAD II	Ød	65	98	98	122	150	185	205	260	300	370	355
	Øe	45	75	75	85	105	140	155	200	225	280	280
	Øf	4×Ø7	4×Ø11	4×Ø14	4×Ø17	4×Ø21	4×Ø26	4×Ø27	4×Ø33	4×Ø35	6×Ø52	6×Ø48
	r	8	12	12	18	20	20	25	30	30	75	75
	s	20	30	30	40	50	60	63	80	70	125	125
	Øx	18	40	40	50	65	90	100	130	140	200	200
	g	30	46	45	51	73.3	80	92	100	150	200	200
HEAD III	h	20	30	30	59	50	60	63	80	125	175	175
	i	M12×1.25	M18×1.5	M22×1.5	M30×2	M40×3	M50×3	M70×3	M80×3	M100×5	M140×6	M150×6
	k	30	46	45	51	73.3	80	92	100	150	200	220
HEAD IV	l	20	30	30	42	60	75	90	185	120	160	180
	m	50	70	70	105	130	150	175	220	300	360	375
	n	30	50	50	75	100	120	140	160	200	280	300
	Øo H8	15	20	25	35	50	60	70	80	100	145	160
	p	65	86	85	117	153.5	170	204	240	325	385	400
	Øu	30	48	50	65	90	110	130	150	170	220	280
	v	15	25	25	37.5	50	60	70	80	100	140	150
Travel Nut	a1	32	40	45	60	75	100	120	145	155	200	225
	b1	10	18	15	18	25	70	35	35	50	80	65
	Øc1	40	50	50	70	90	90	130	150	160	200	230
	Ød1	50	76	80	87	110	120	155	190	225	260	395

Maintenance and Installation Recommendations

In order to ensure that the actuator gives good service over a period of years, the following precautions should be taken:

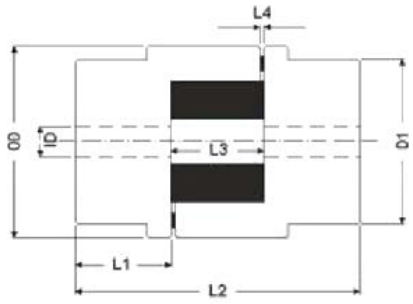
1. Select an actuator which has a rated capacity greater than the maximum load that may be imposed on it.
2. The structure on which the actuators are mounted should have ample strength to carry the maximum load, and should be rigid enough to prevent undue deflection or distortion of the actuator supporting members.
3. The actuators should have a greater raise than is needed in the actual installation. Should it be necessary to operate the actuators at the extreme limits of travel, it should be done cautiously.
4. The maximum worm shaft speed for these actuators should not exceed 500 R.P.M. for heavy loads.
5. The lifting screws should not be permitted to accumulate dust and grit on the threads. If possible, the lifting screw should be returned to the closed height position when not in use.
6. The actuators are shipped packed with grease (unless otherwise called for), which should be sufficient for one month using one of the extreme pressure greases or their equivalent.
7. For severe service conditions, the actuator should be lubricated with a molybdenum disulfide type of grease about once a week.

Accessories Gear Coupling



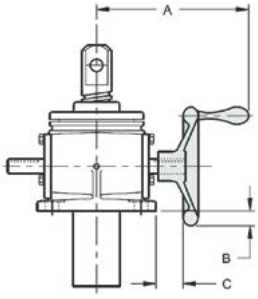
Gear Couplings

SIZE(Tons)	0.5	1	2	2.5	5	10	15	20	25	30	35	50	75	100	150
Model	H-19	H-19	H-19	H-19	H-28	H-28	H-28	H-28	H-38	H-38	H-38	H-48	H-48	H-65	-
A	48	48	48	48	66	66	66	66	83	83	83	100	100	140	-
B	30	30	30	30	44	44	44	44	56	56	56	68	68	96	-
F	54	54	54	54	81.8	81.8	81.8	81.8	81.8	81.8	81.8	100.8	100.8	143.5	-
L	37	37	37	37	46	46	46	46	48	48	48	50	50	72	-



Love Joy Couplings

SIZE(Tons)	0.5	1	2	2.5	5	10	15	20	25	30	35	50	75	100	150
Model	CP-50	CP-50	CP-70	CP-70	CP-75	CP-95	CP-99/100	CP-110	CP-110	CP-110	CP-150	CP-190	CP-225	-	-
L1	15	15	19	19	21	25	35	43	43	43	45	54	64	-	-
L2	42	42	51	51	56	63	88	108	108	108	115	133	153	-	-
OD	27	27	36	36	44.5	54	65	85	85	85	96	115	127	-	-



Hand Wheels

SIZE(Tons)	0.5	1	2	2.5	5	10	15	20	25	30	35	50	75	100	150
Diameter	4"	4"	6"	6"	8"	10"	12"	12"	-	-	-	-	-	-	-
A	4 5/8	5 3/8	7 1/4	7 1/4	8 3/4	10 1/4	10 1/4	10 5/8	-	Standard Motors are recommended					-
B	1	2-Jan	1 1/4	1 1/4	1 3/4	2 3/4	2 1/4	2 3/4	-						-
C	8-Mar	8-May	8-Mar	1 7/8	1 7/8	2 3/8	2 1/4	2 3/8	-	-	-	-	-	-	-

Master The Heat.
Maximize The Performance.

HPP Air-Cooled Oil Coolers are one of our best-selling products, built to control hydraulic temperature and reduce downtime in high-heat environments.

AIR COOLED OIL COOLERS

HPP Air-Cooled Oil Coolers are one of the most selling products. It is essential for maintaining the ideal temperature in hydraulic systems, extending the life of components, and reducing system downtime. Our coolers are built with high-efficiency finned tubes and electric or hydraulic-driven fans. They are easy to install and ideal for mobile equipment, compressors, and power units operating in high ambient temperature conditions. Designed for optimal heat dissipation and minimal energy consumption, our air coolers meet the cooling demands of various hydraulic circuits.

Air Cooled Oil Cooler

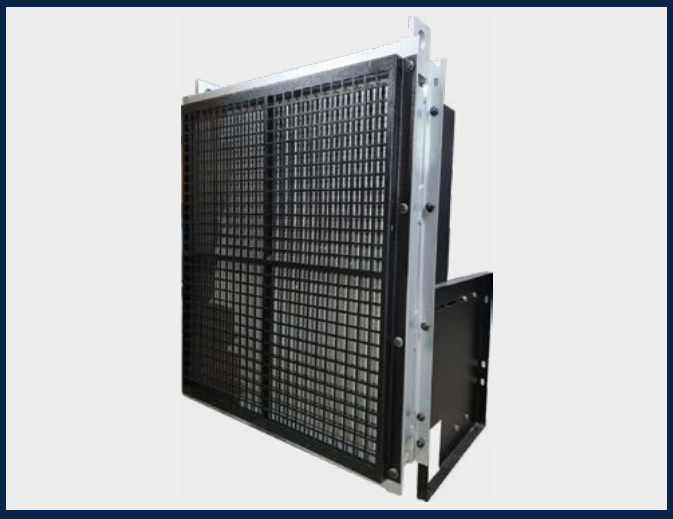
Offline Cooling System for Cement Plant

Offline Cooling System for Automobile Industry

Offline Cooling System for Gearbox

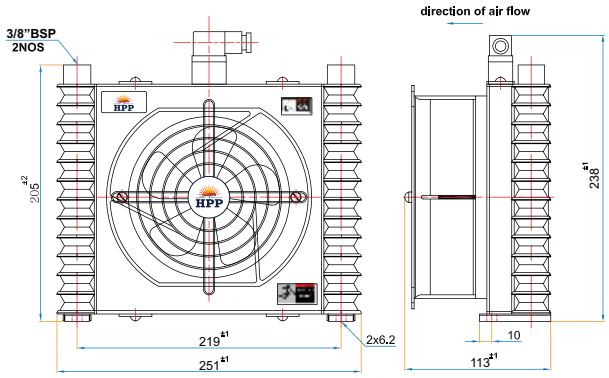
Air-Cooled Oil Cooler with Hydraulic Motor for Moving Vehicles

Air-Cooled Oil Cooler for Stone Crusher Machines

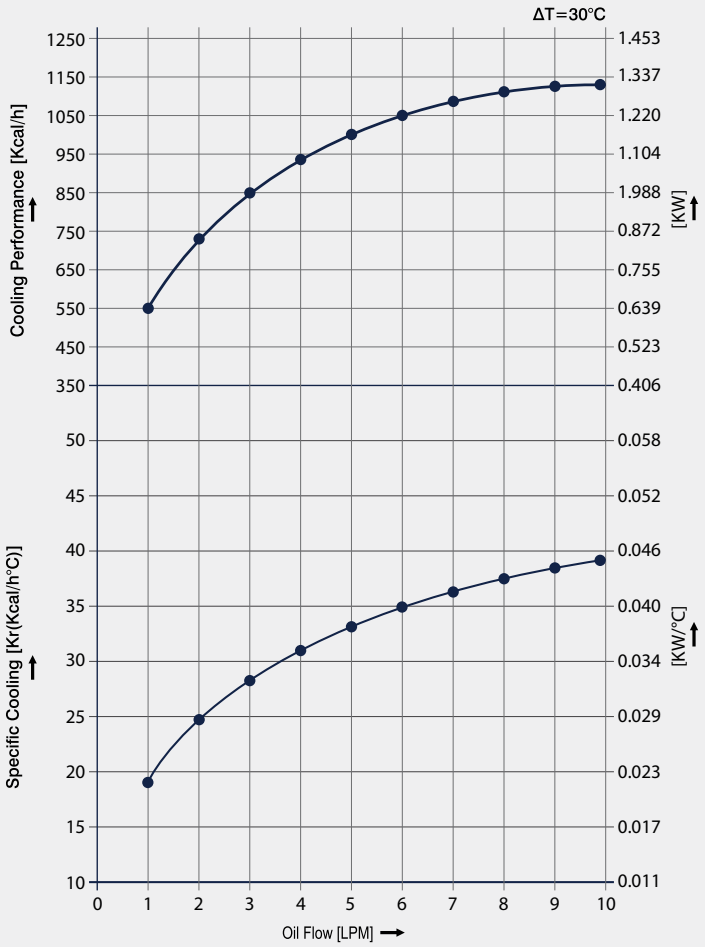


Air Cooled Oil Cooler for Stone Crushers Machines

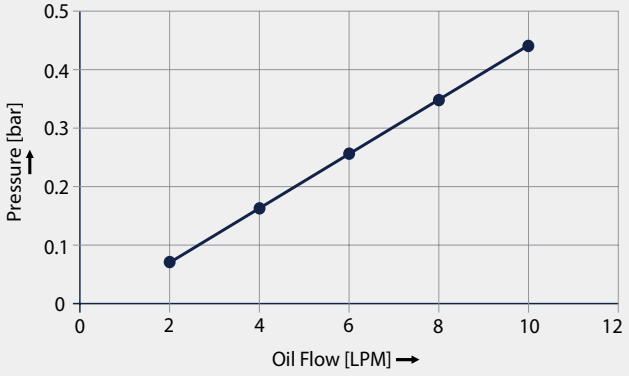
HPP-L-608



Performance Graph



PRESSURE DROP

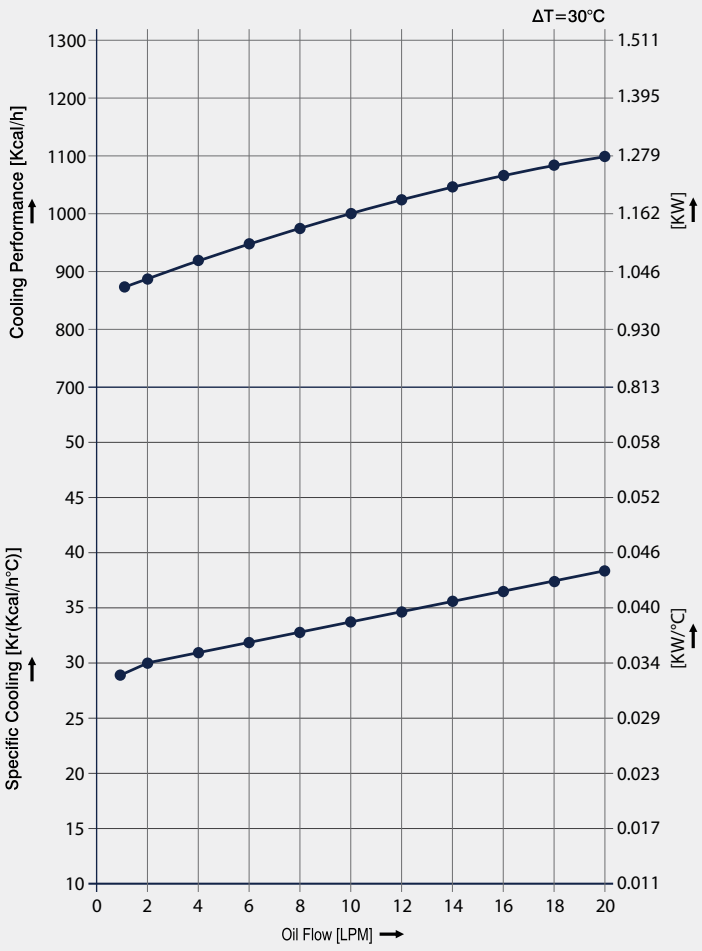


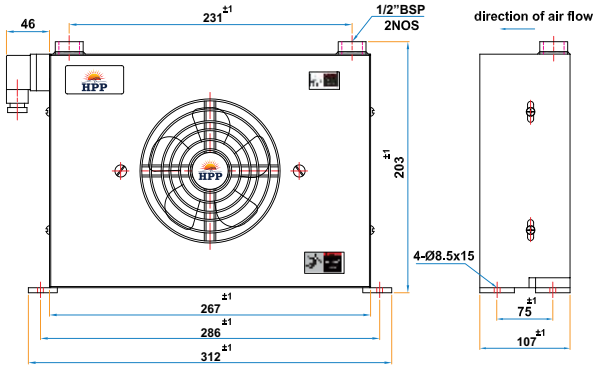
Best Suited For Drain Line Of Variable Displacement Pumps Up to 70 Bar Pressure

Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
1-12	6"(150)	1	1P	AC	230	50	0.25	54
1-12	6"(150)	1		DC	12		1.6	60
1-12	6"(150)	1		DC	24		0.75	60

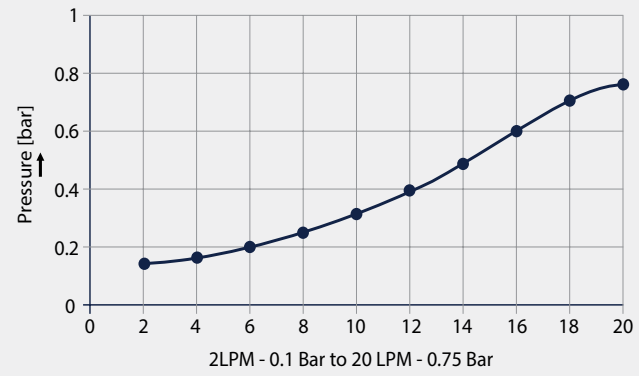
HPP-W-0608

Performance Graph



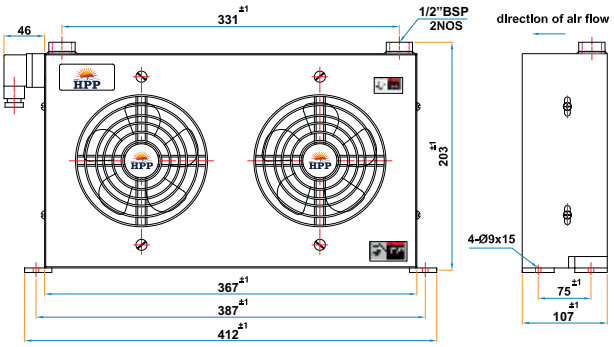


PRESSURE DROP

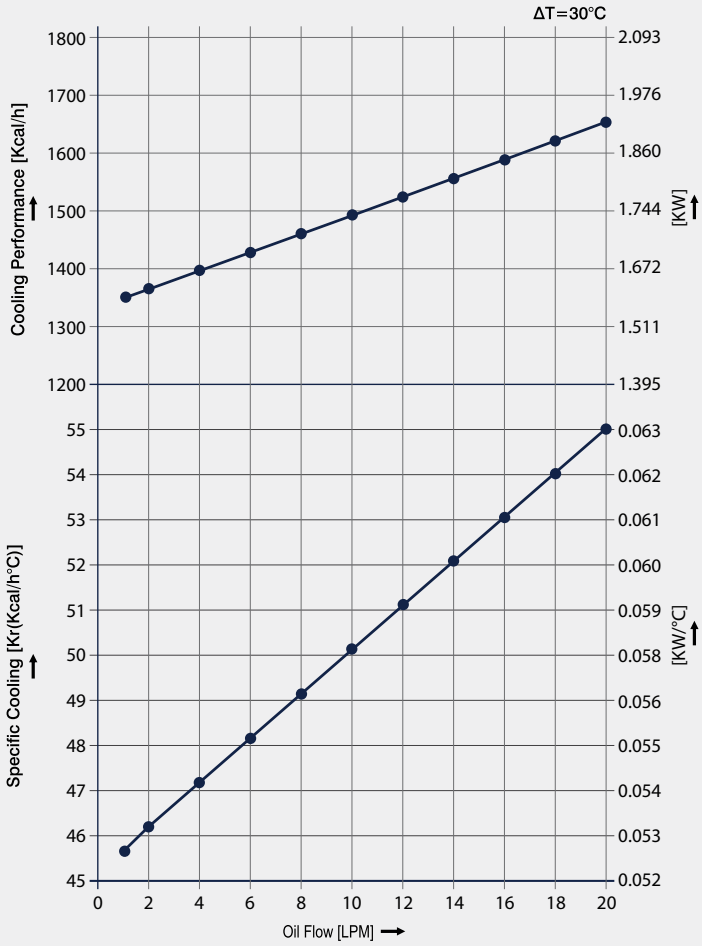


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
1-22	6"(150)	1	1P	AC	230	50	0.25	55
1-22	6"(150)	1		DC	12		1.6	60
1-22	6"(150)	1		DC	24		0.75	60

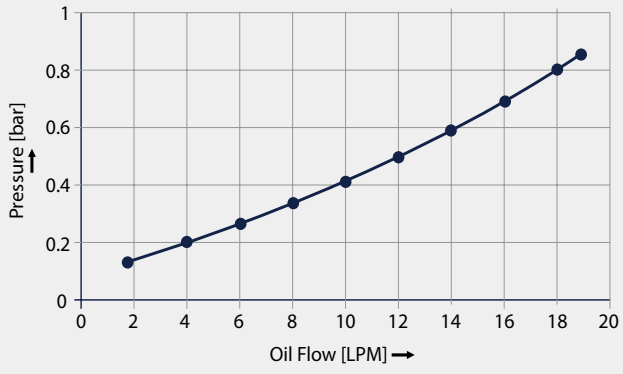
HPP-W-0608-F2



Performance Graph



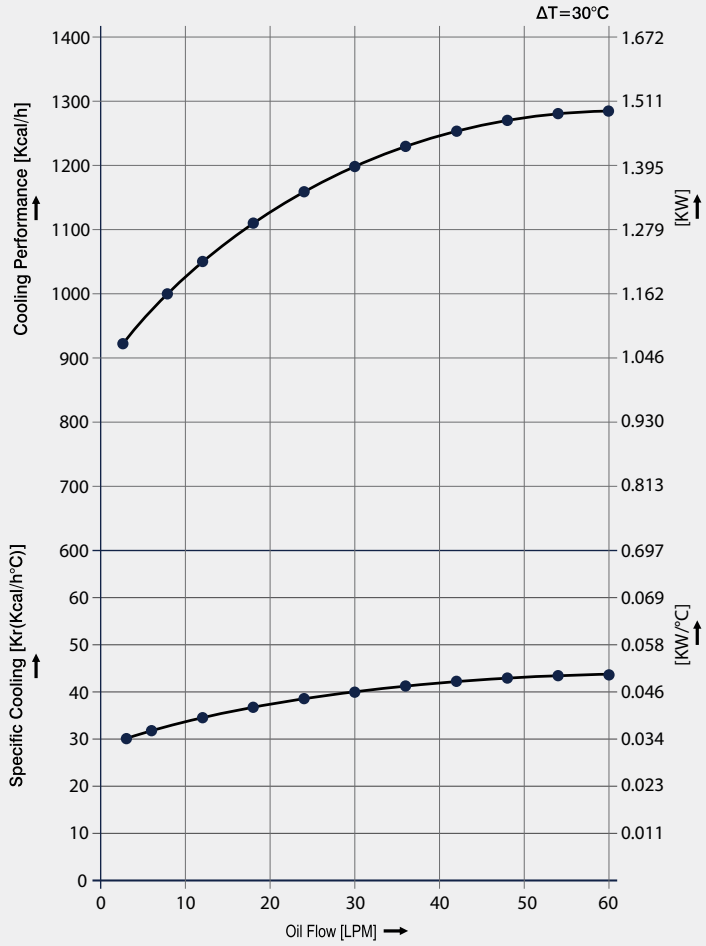
PRESSURE DROP

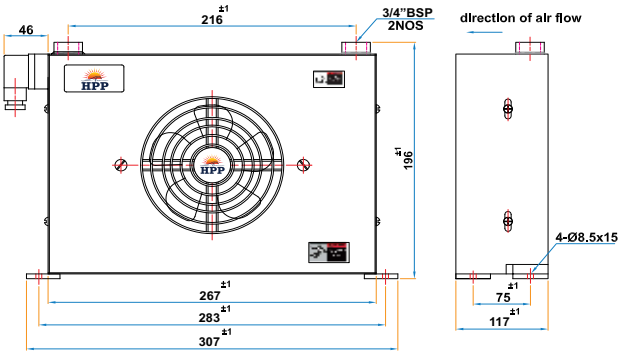


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
1-22	6"(150)	2	1P	AC	230	50	0.50	58
1-22	6"(150)	2		DC	12		3.2	62
1-22	6"(150)	2		DC	24		1.5	62

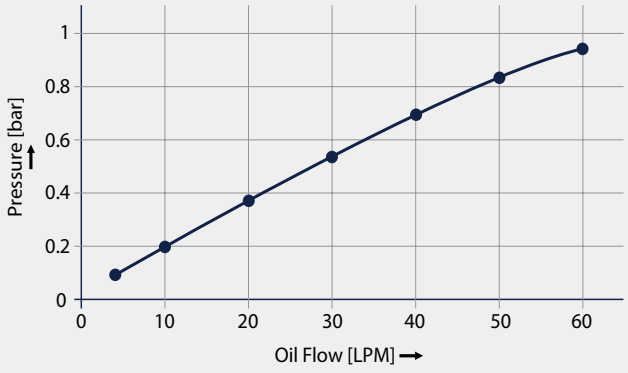
HPP-H-0608

Performance Graph



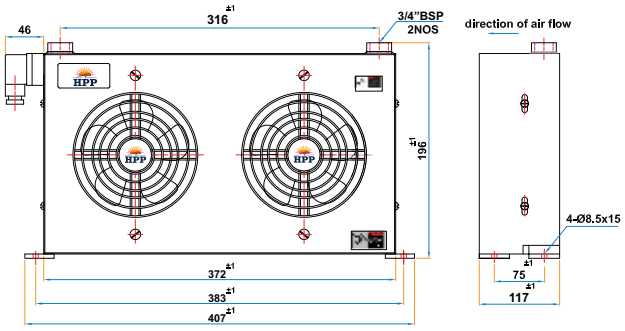


PRESSURE DROP

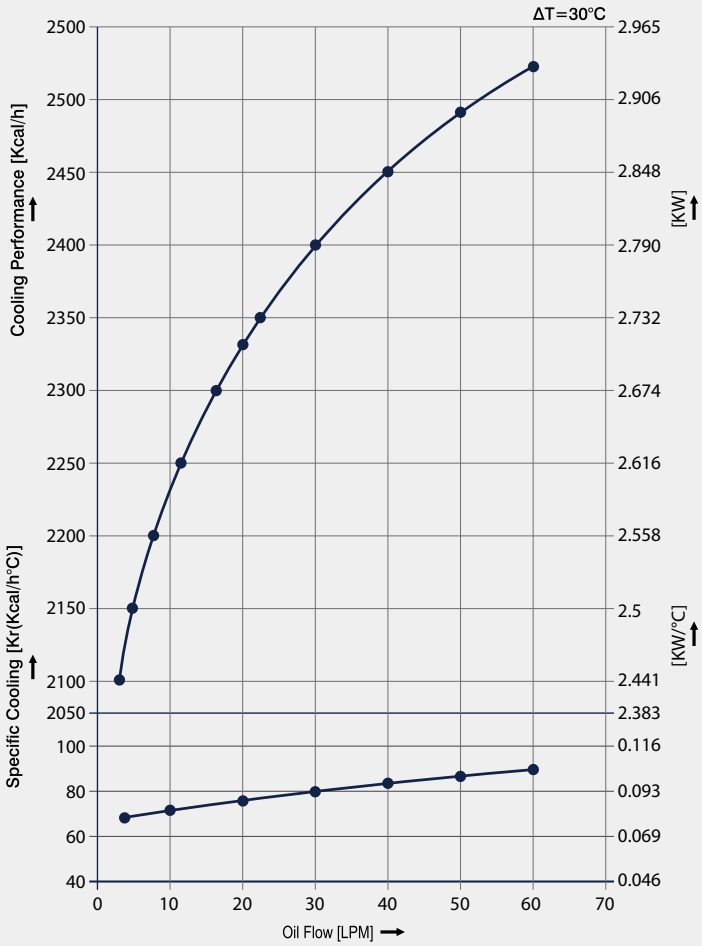


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
3-60	6"(150)	1	1P	AC	230	50	0.25	56
3-60	6"(150)	1		DC	12		1.6	60
3-60	6"(150)	1		DC	24		0.75	60

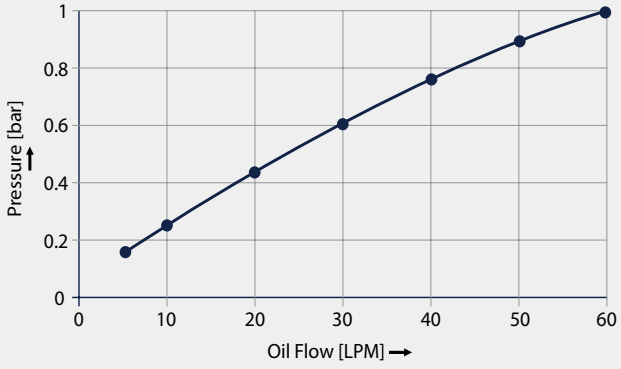
HPP-H-0608-F2



Performance Graph



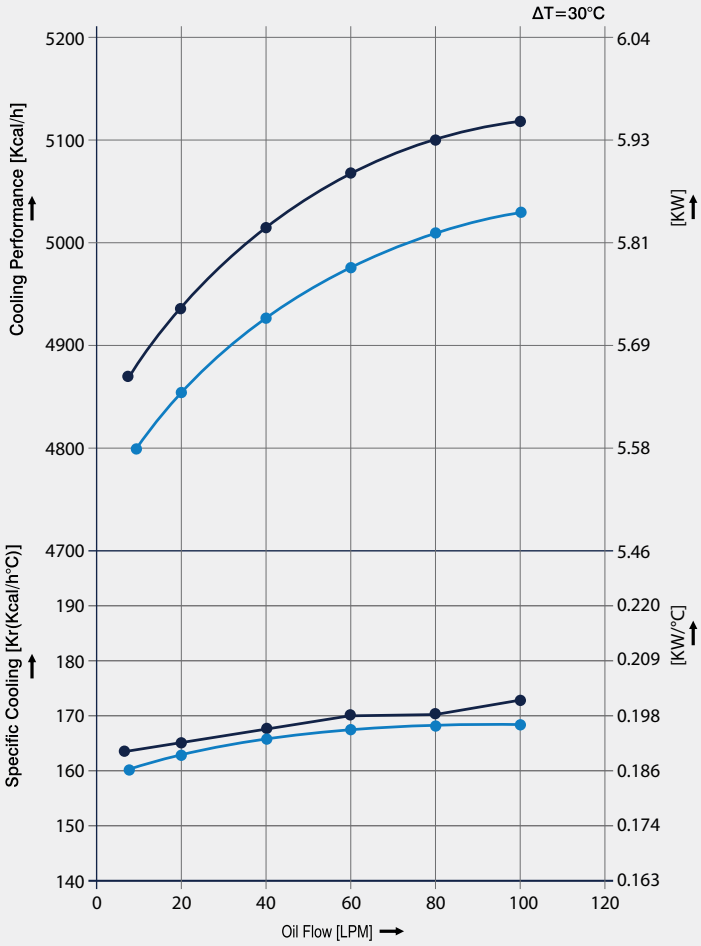
PRESSURE DROP

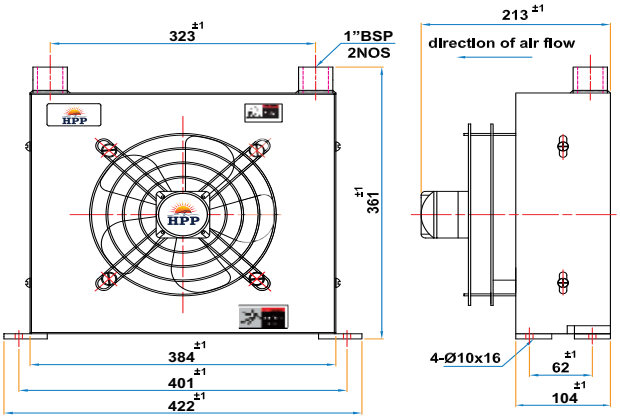


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
3-60	6"(150)	2	1P	AC	230	50	0.50	58
3-60	6"(150)	2		DC	12		3.2	62
3-60	6"(150)	2		DC	24		1.5	62

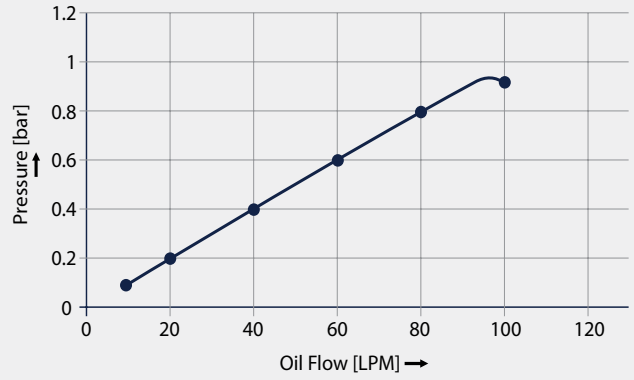
HPP-H-1012,1P,3P & D12V & D24V

Performance Graph



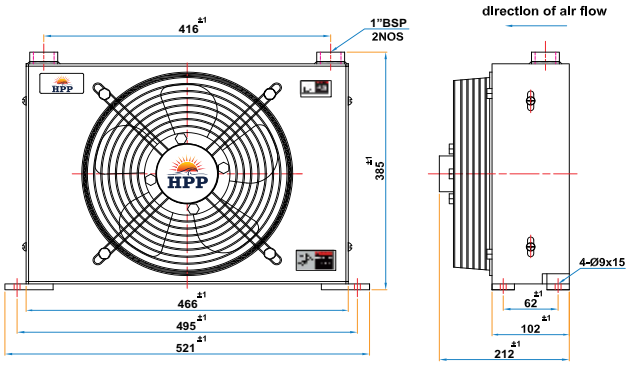


PRESSURE DROP

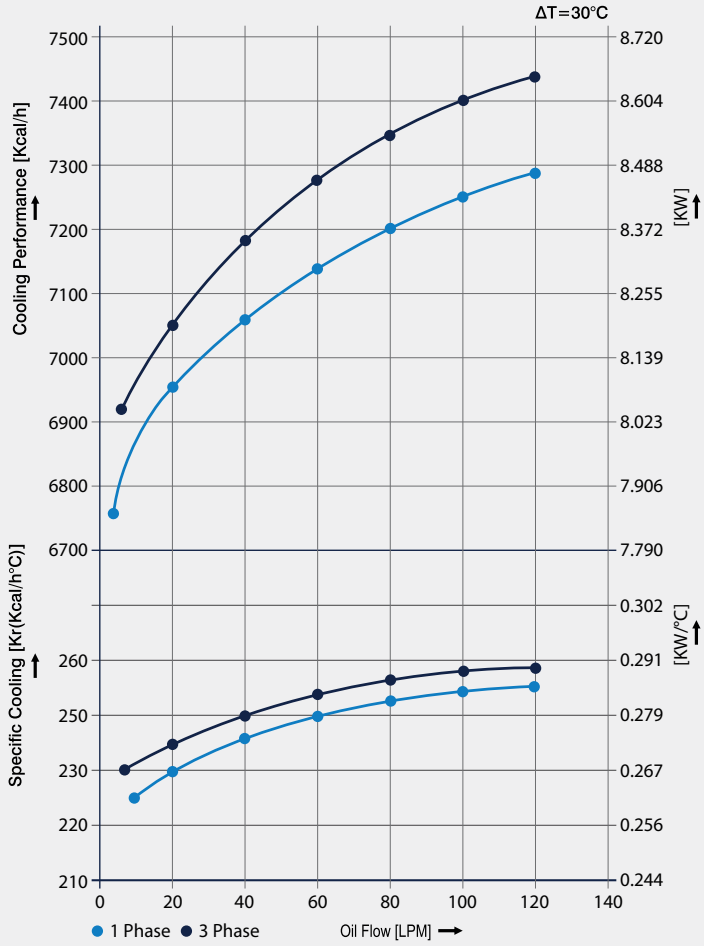


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
20-120	10" (250)	1	1P	AC	230	50	0.23	52
20-120	10" (250)	1	3P	AC	415	50	0.17	52
20-120	10" (250)	1		DC	12		8.7	55
20-120	10" (250)	1		DC	24		5	55

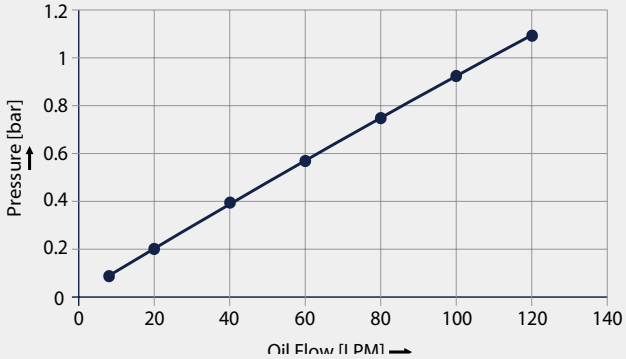
HPP-H-1215-1P,3P,D12V & D24V



Performance Graph



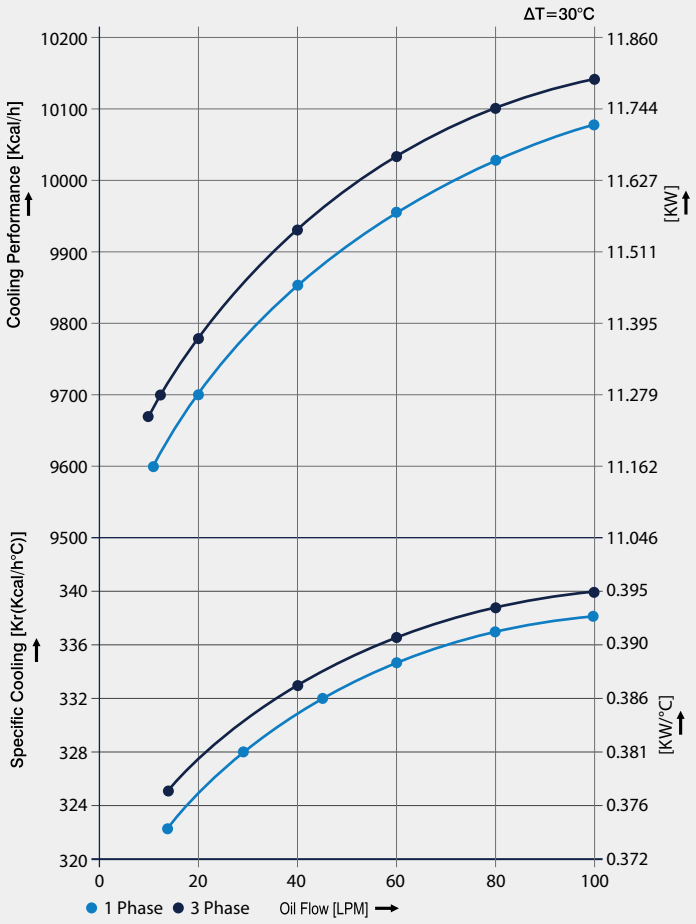
PRESSURE DROP

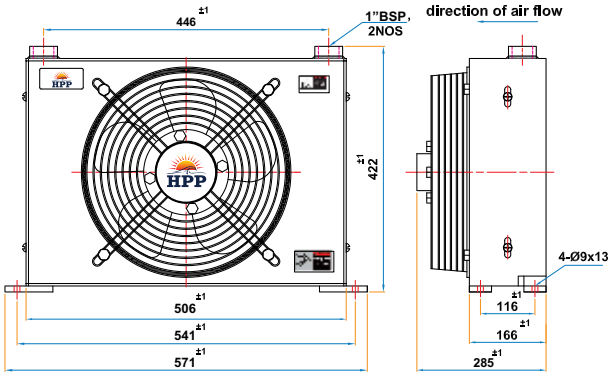


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
20-140	12"(300)	1	1P	AC	230	50	0.42	59
20-140	12"(300)	1	3P	AC	415	50	0.22	59
20-140	12"(300)	1		DC	12	50	13.5	59
20-140	12"(300)	1		DC	24	50	6.4	59

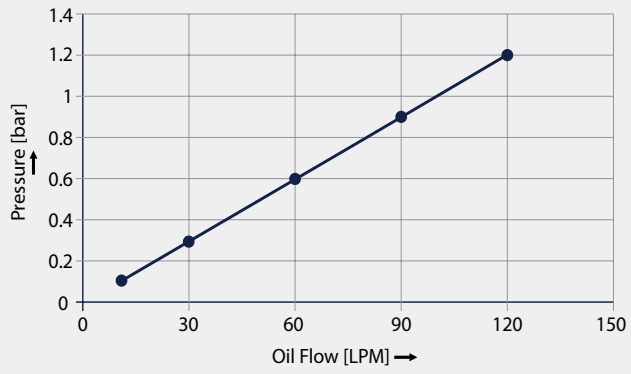
HPP-H-1418-1P & 3P

Performance Graph



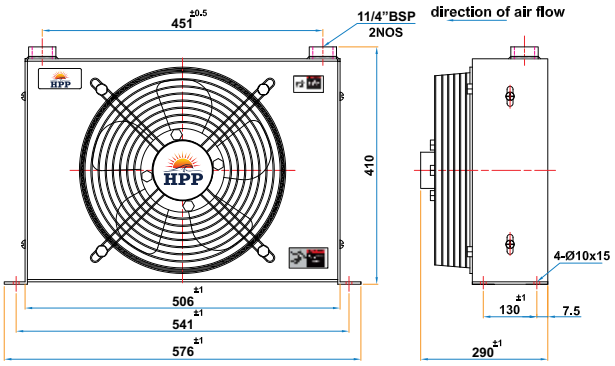


PRESSURE DROP

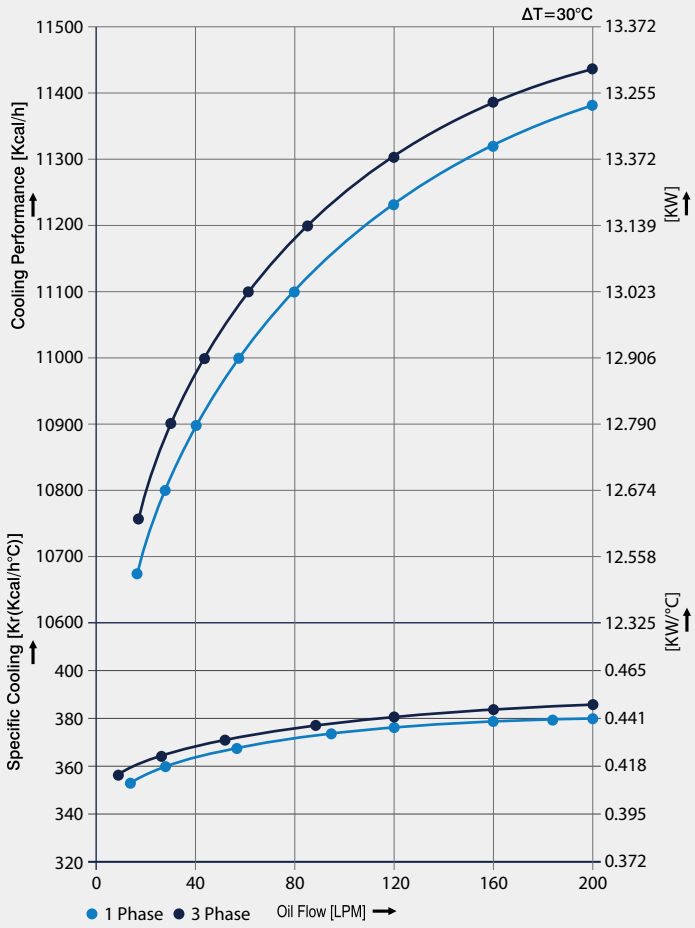


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-150	14" (350)	1	1P	AC	230	50	0.65	75
30-150	14" (350)	1	3P	AC	415	50	0.38	75
30-150	14" (350)	1		DC	12		9.5	75
30-150	14" (350)	1		DC	24		8.9	75

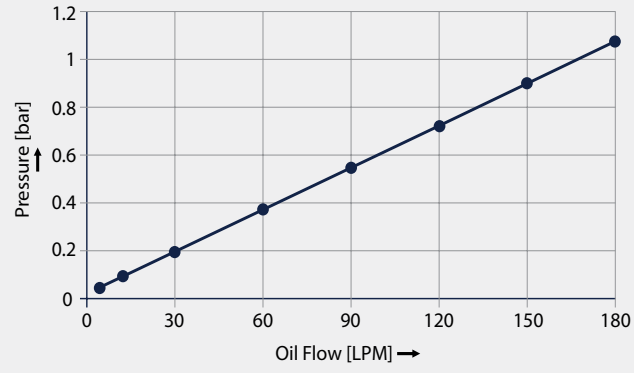
HPP-H-1428-1P & 3P



Performance Graph



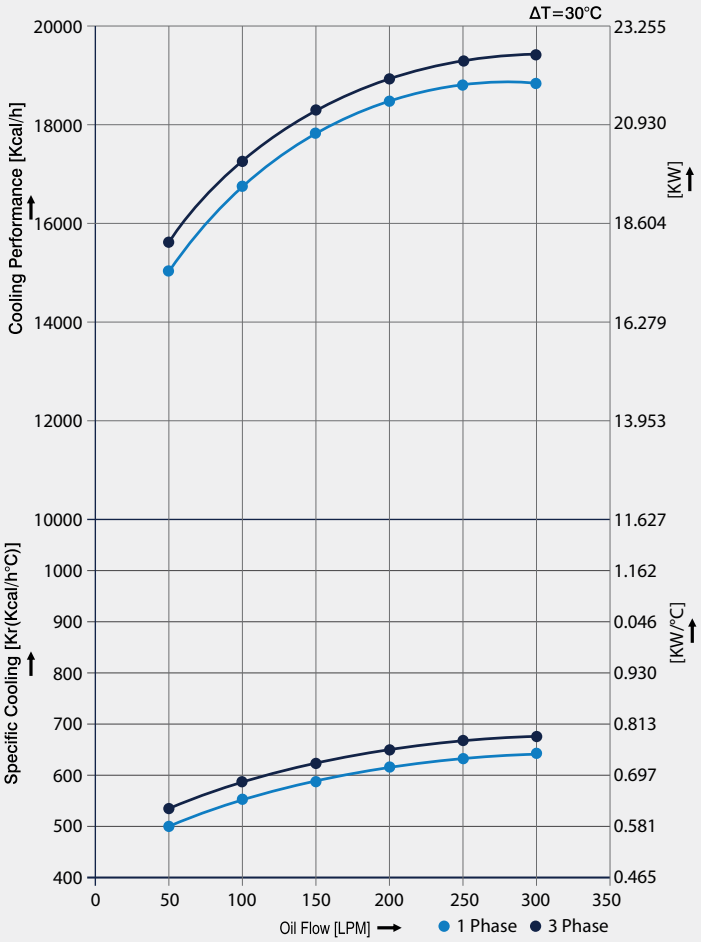
PRESSURE DROP

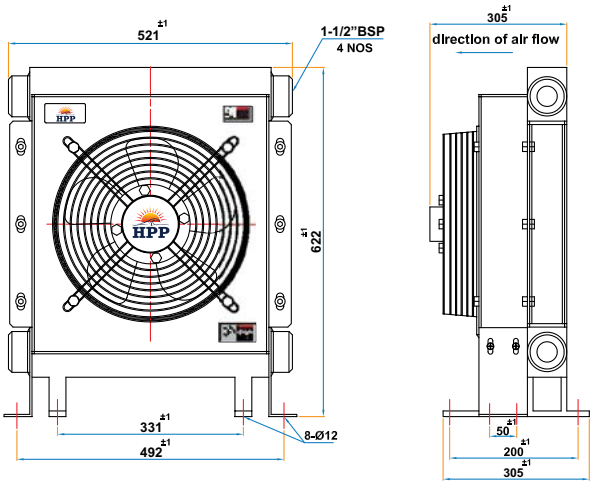


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-200	14"(350)	1	1P	AC	230	50	0.65	75
30-200	14"(350)	1	3P	AC	415	50	0.38	75
30-200	14"(350)	1		DC	12		9.5	75
30-200	14"(350)	1		DC	24		8.9	75

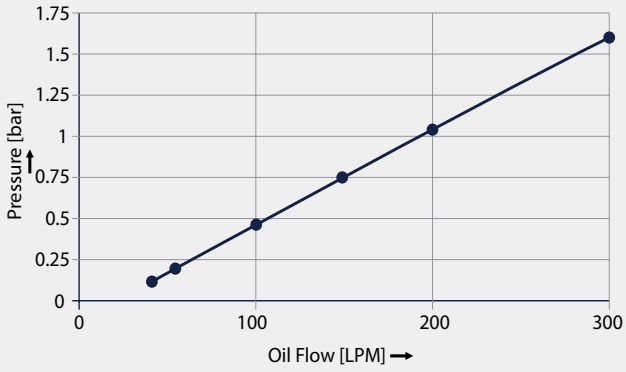
HPP-H-1490-1P & 3P

Performance Graph



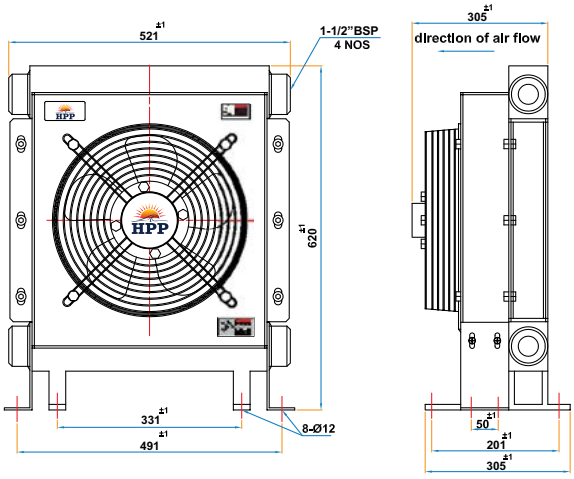


PRESSURE DROP

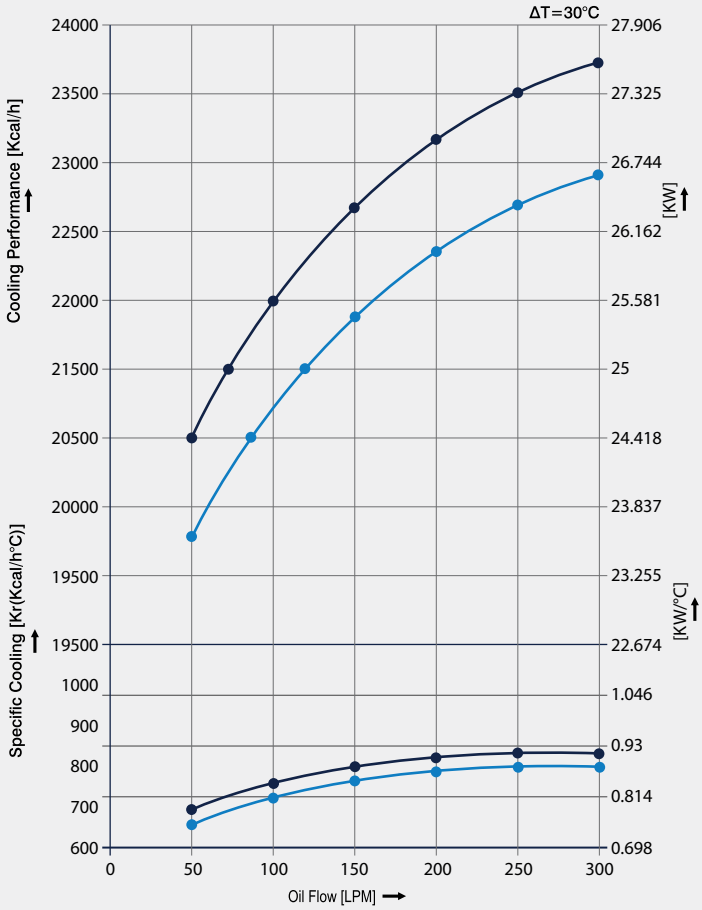


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-260	14" (350)	1	1P	AC	230	50	0.65	60
30-260	14" (350)	1	3P	AC	415	50	0.38	60
30-260	14" (350)	1		DC	12		9.5	60
30-260	14" (350)	1		DC	24		8.9	60

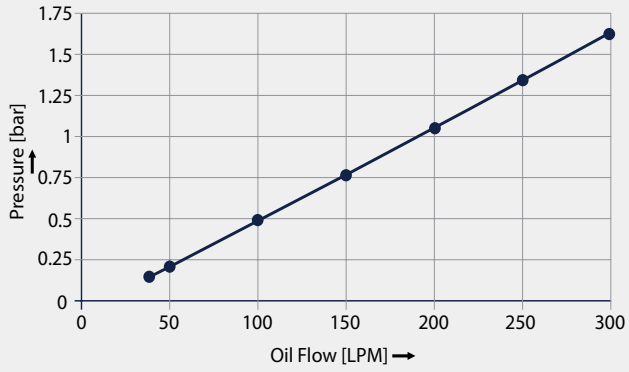
HPP-H-1680-1P & 3P



Performance Graph



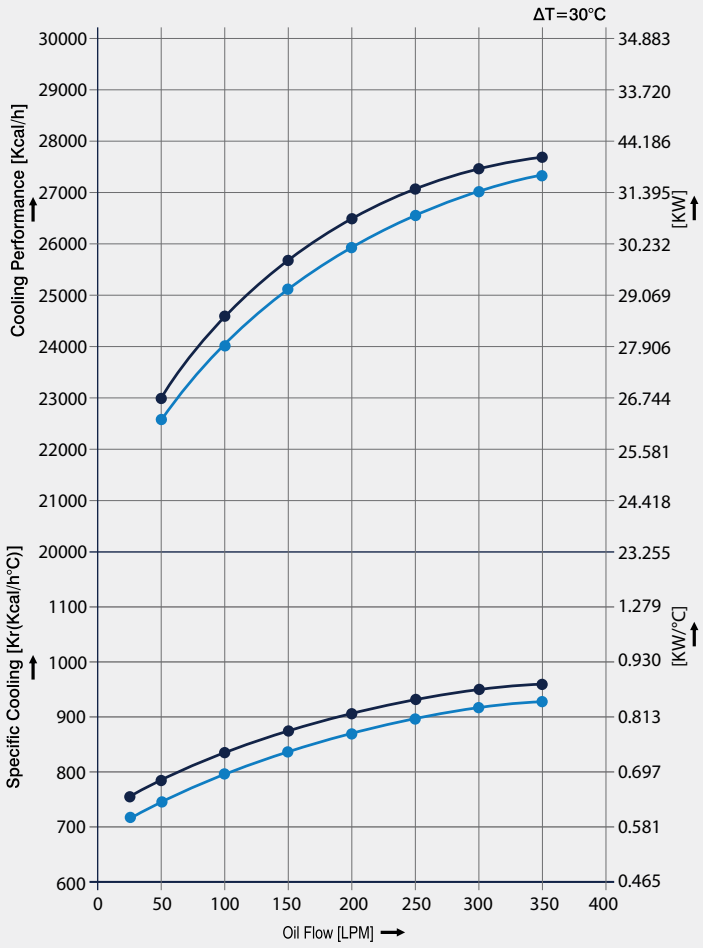
PRESSURE DROP

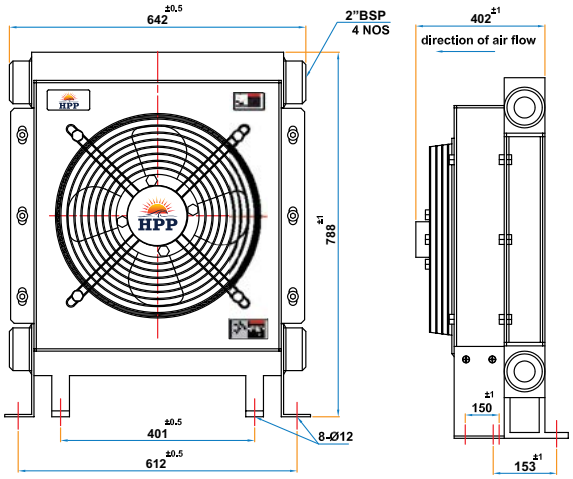


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-280	16"(400)	1	1P	AC	230	50	0.82	76
30-280	16"(400)	1	3P	AC	415	50	0.47	76
30-280	16"(400)	1		DC	12		10.7	76
30-280	16"(400)	1		DC	24		9.1	76

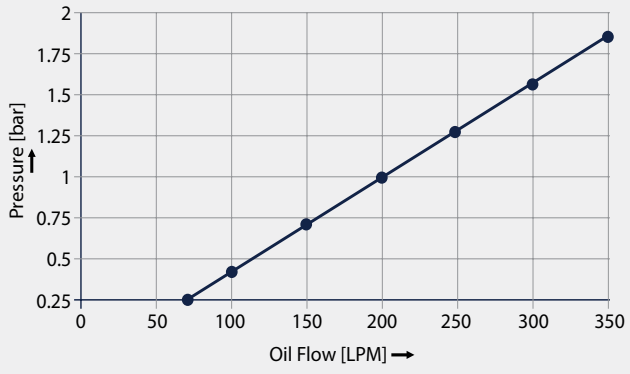
HPP-H-1890-1P & 3P

Performance Graph



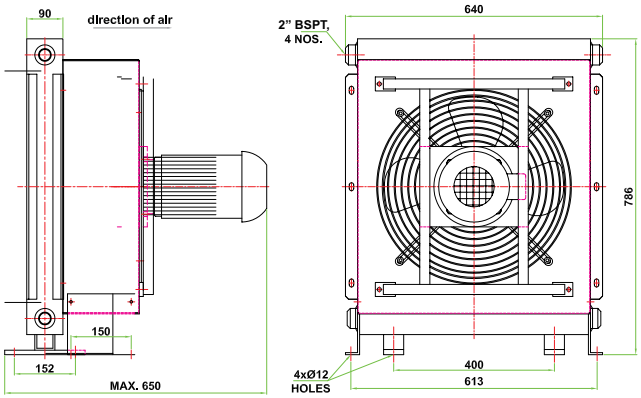


PRESSURE DROP

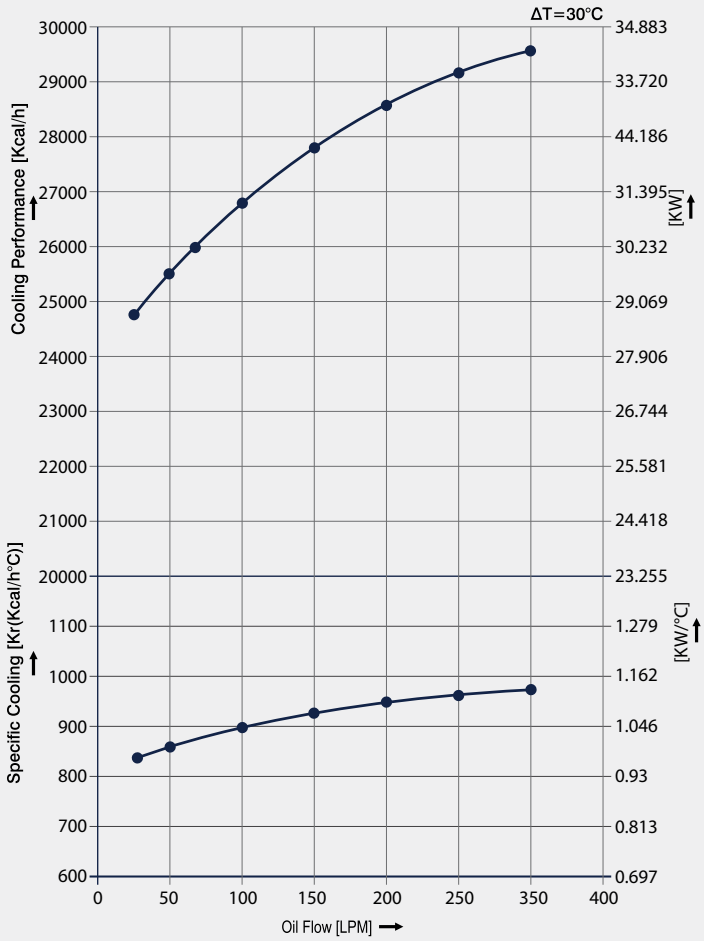


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-300	18" (450)	1	1P	AC	230	50	1.2	79
30-300	18" (450)	1	3P	AC	415	50	0.6	79

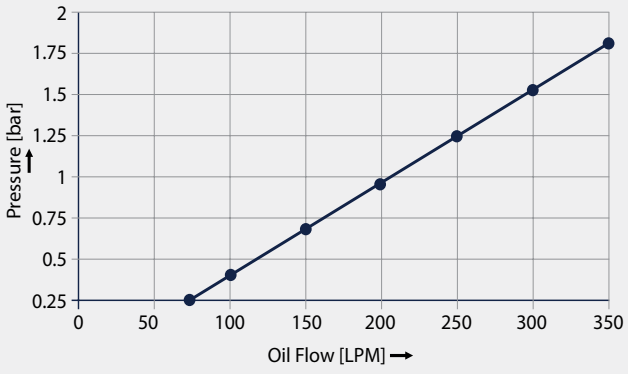
HPP-H-1890T



Performance Graph



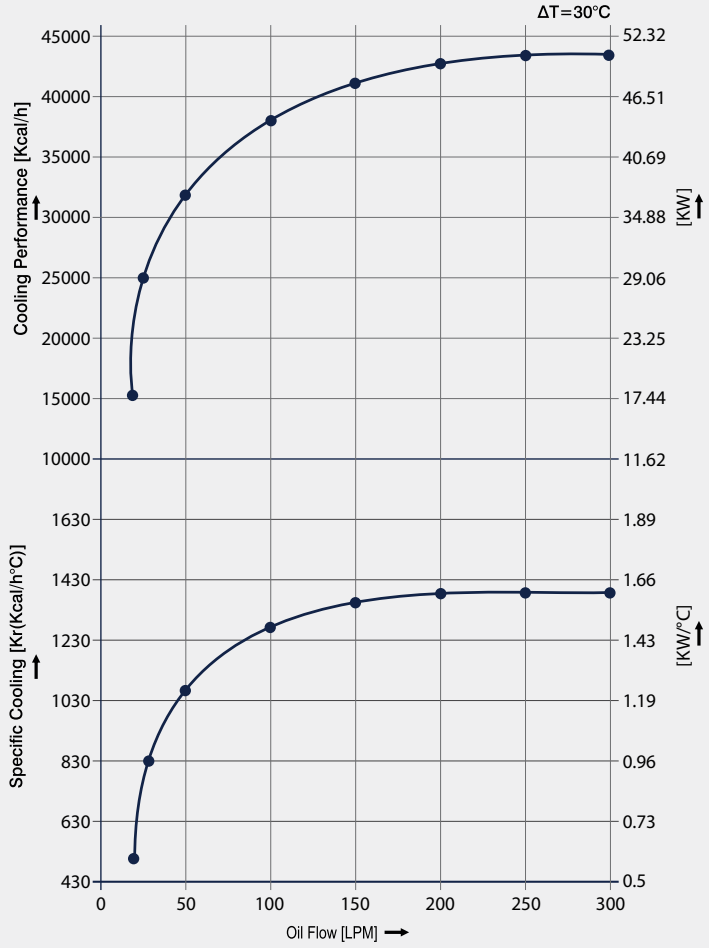
PRESSURE DROP



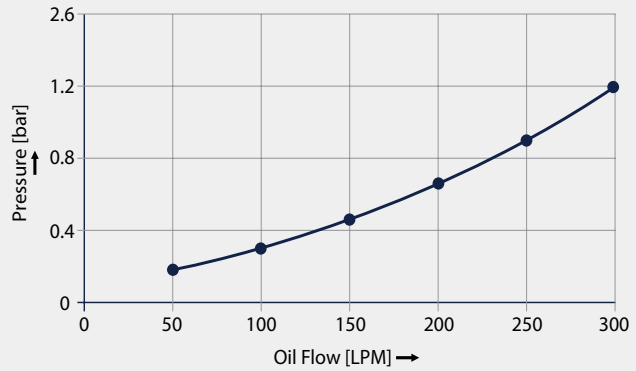
Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-300	18"(450)	1	3P	AC	415	50	0.6	83

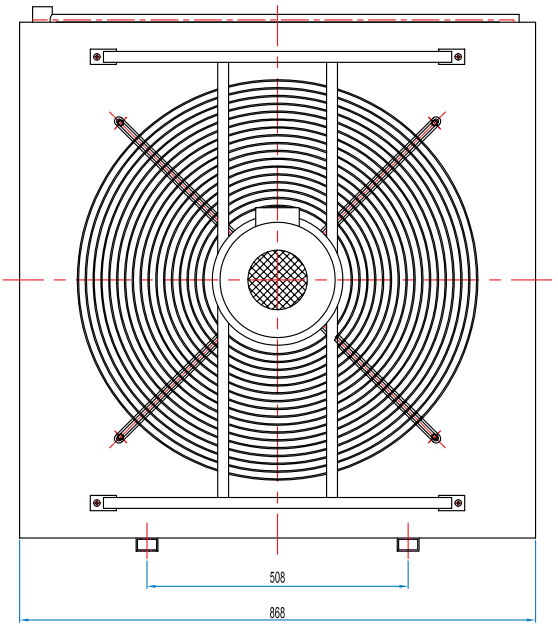
HPP-H-2432

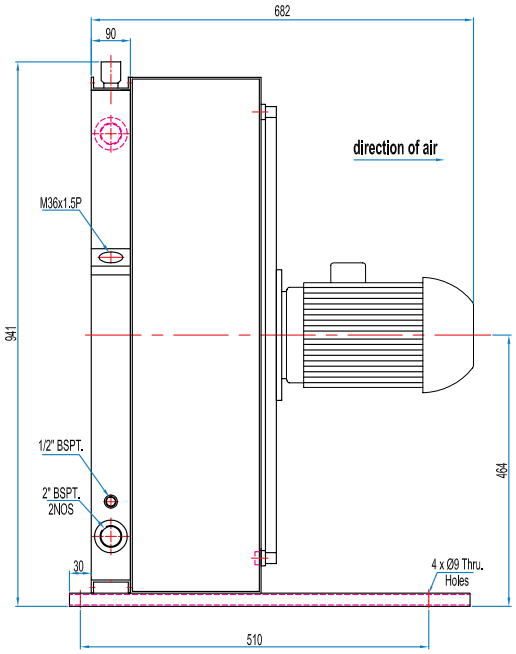
Performance Graph



PRESSURE DROP

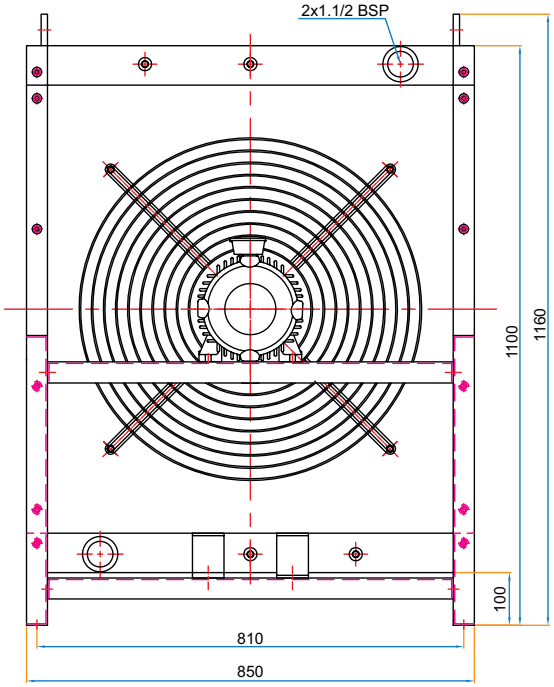


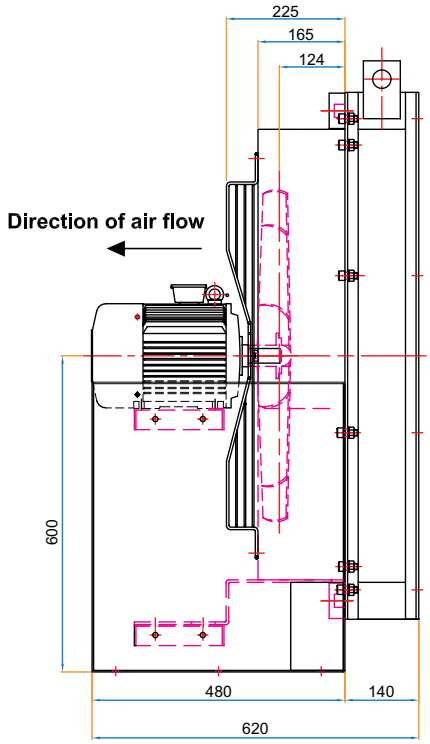




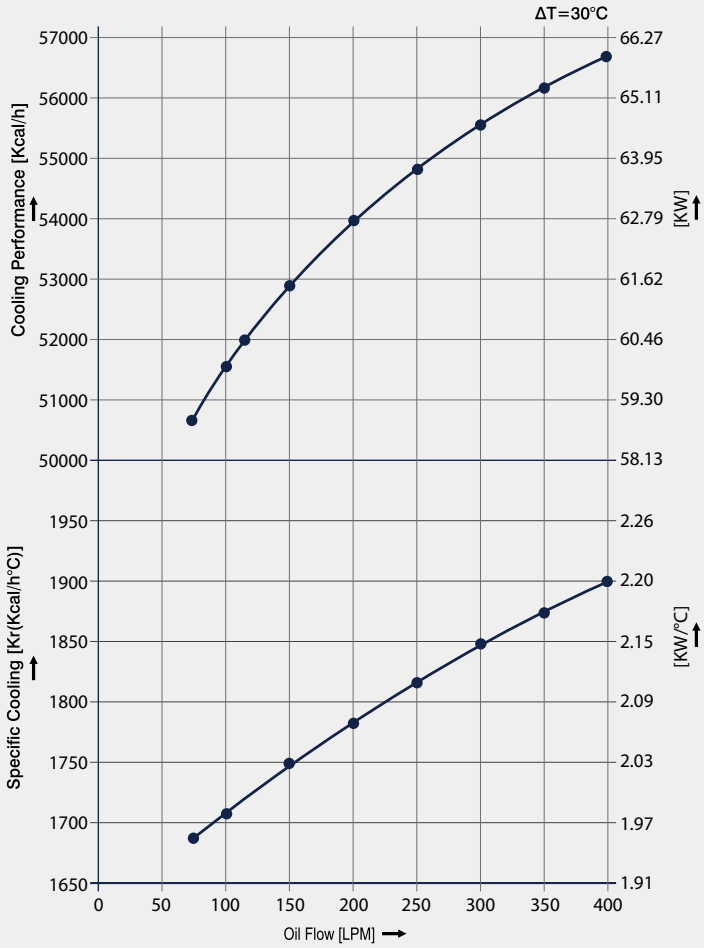
Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-300	24" (600)	1	3P	AC	415	50	3.3	85

HPP-H-2583

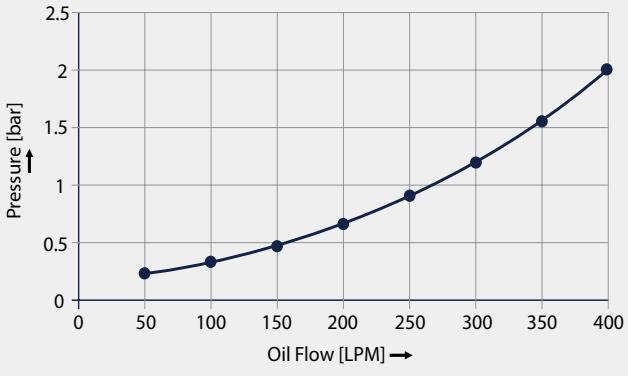




Performance Graph



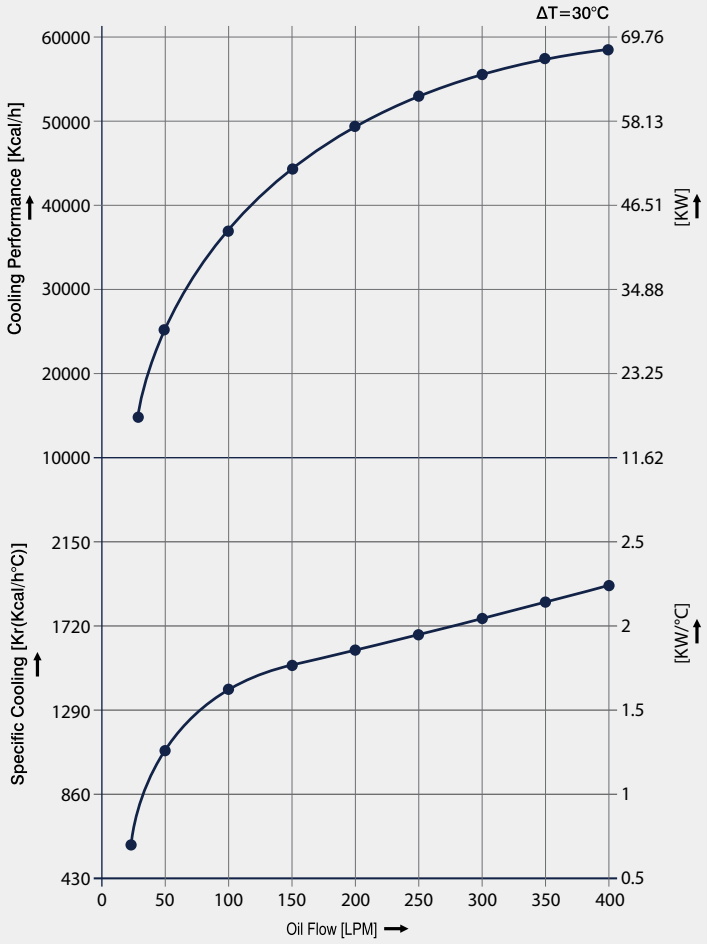
PRESSURE DROP

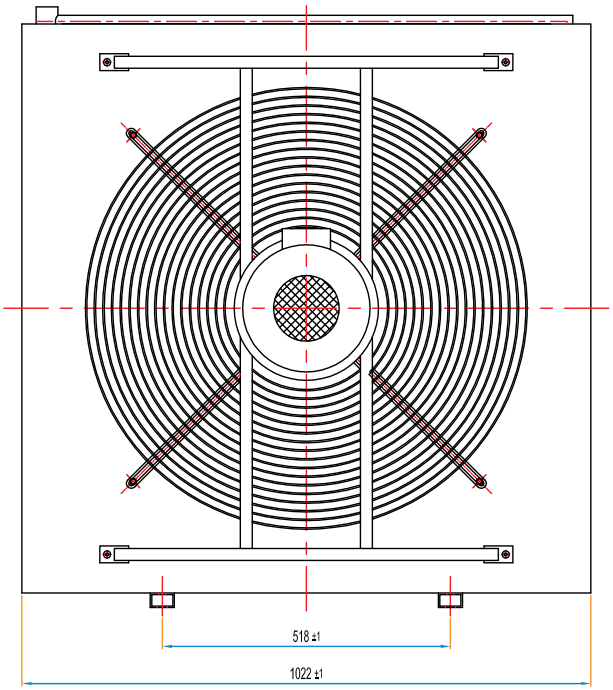


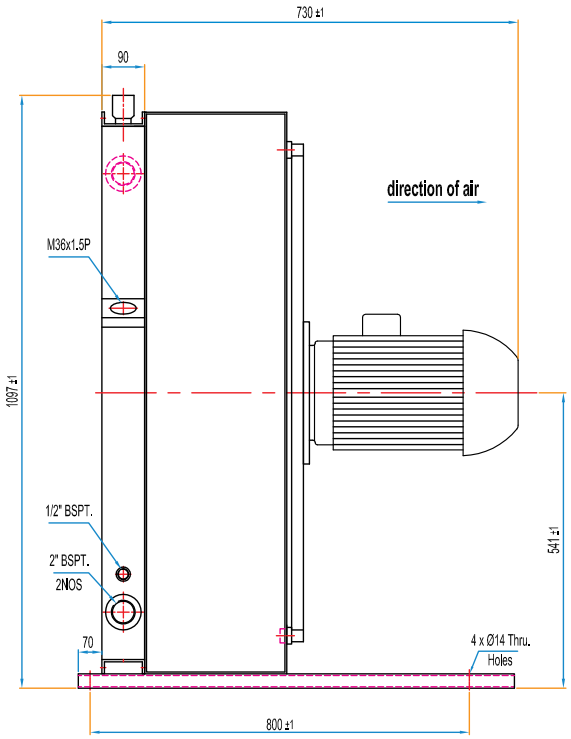
Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-350	25"(625)	1	3P	AC	415	50	4.5	83

HPP-H-3044

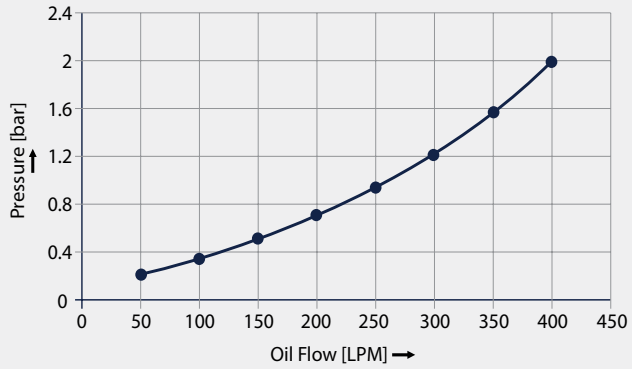
Performance Graph





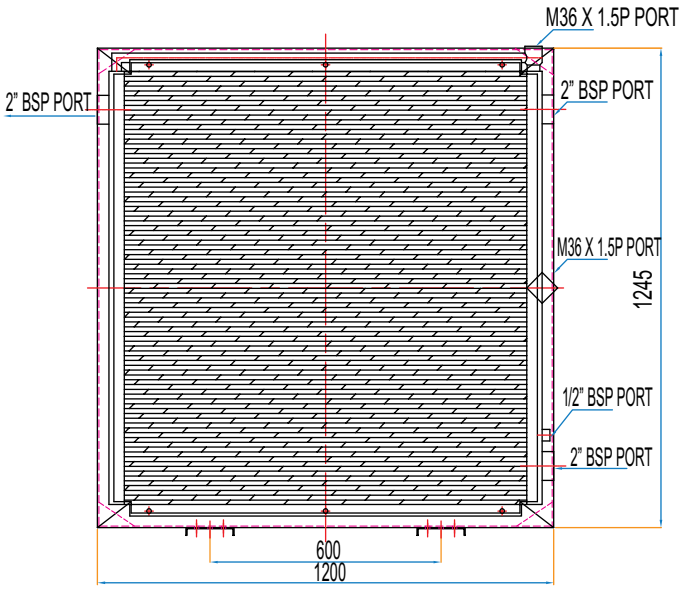


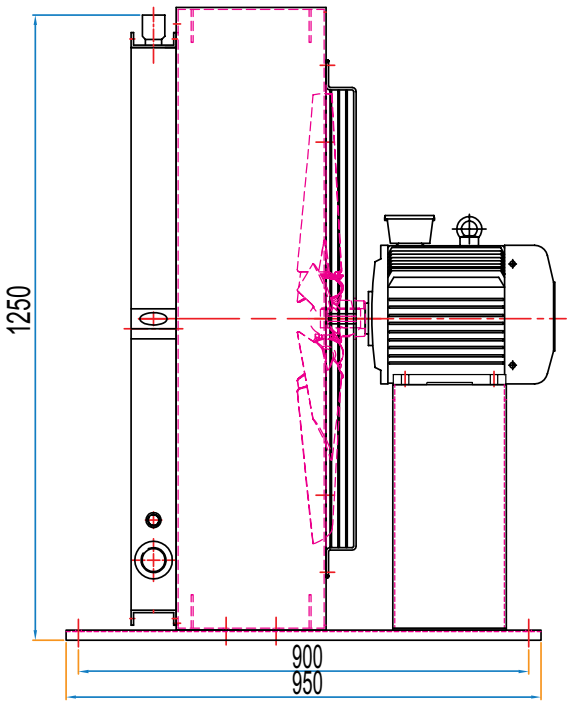
PRESSURE DROP



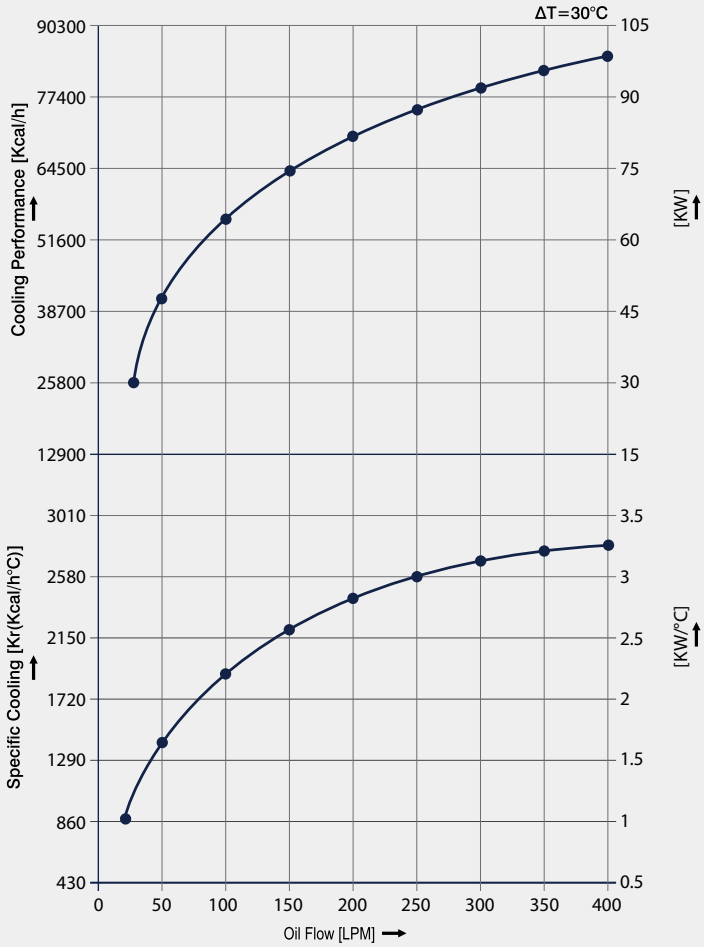
Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
25-400	30" (750)	1	3P	AC	415	50	4.7	83

HPP-H-2583

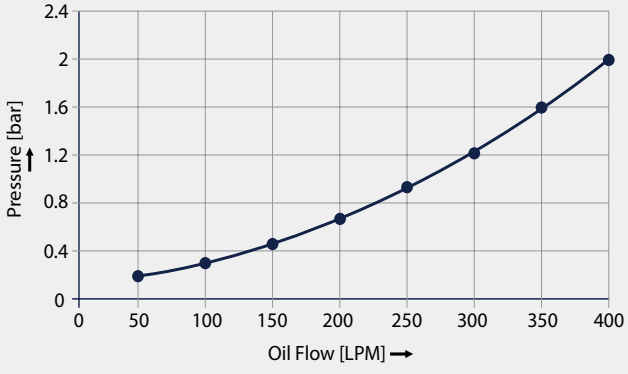




Performance Graph



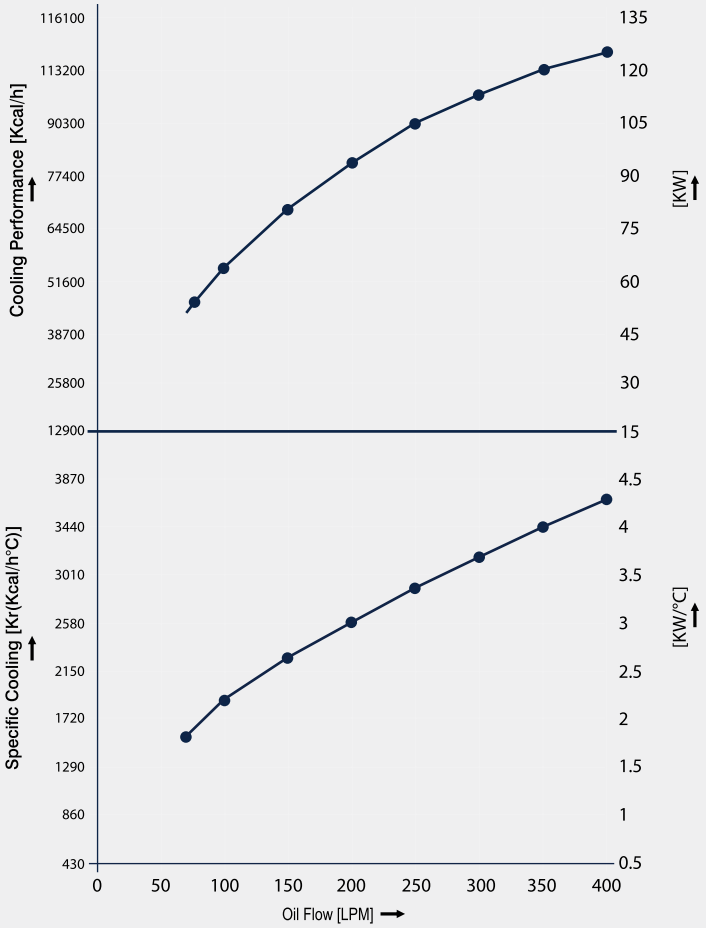
PRESSURE DROP

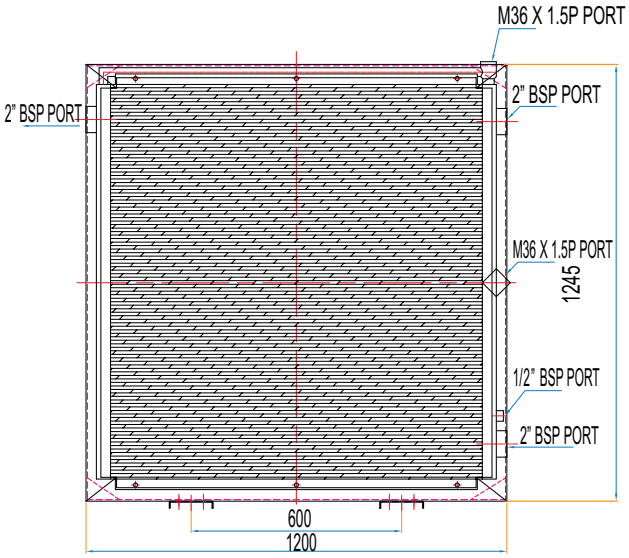


Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-400	36"(900)	1	3P	AC	415	50	11.25	86

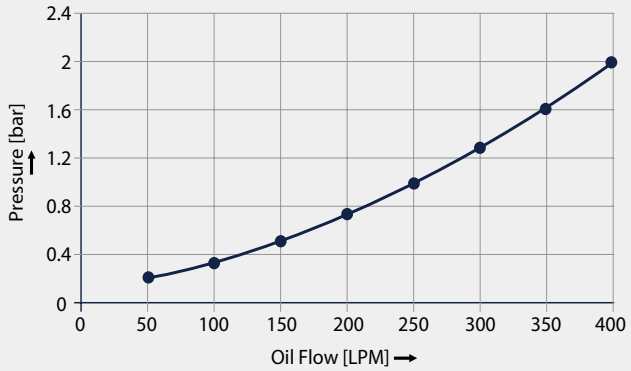
HPP-H-3655

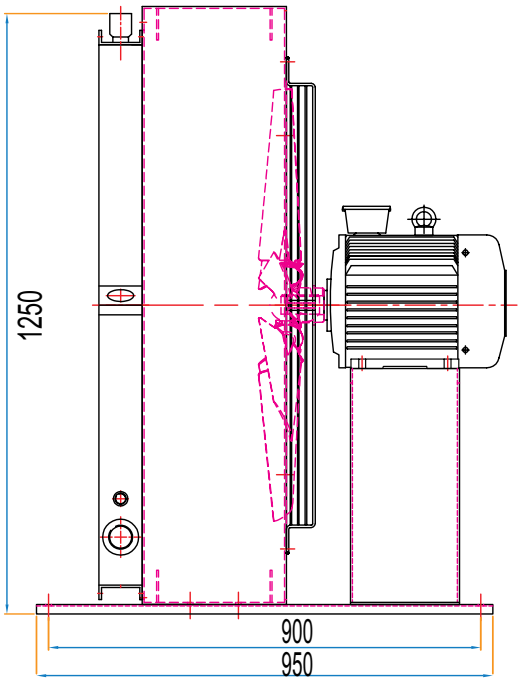
Performance Graph





PRESSURE DROP





Oil Flow LPM	Fan Size Inch (mm)	No. Of Fans	Phase	Power Source	Voltage V	Frequency HZ	Current A	Noise dBA
30-400	36" (900)	1	3P	AC	415	50	5.5	90

OUR CLIENTS

HPP

BorgWarner · ENDURANCE Complete Solutions · APL APOLLO STEEL PIPES · EXIDE INDUSTRIES LIMITED · CENLUB Industries Limited · CENTURY PULP & PAPER

ISGEC · BHEL · sona Driving Tomorrow · GABRIEL · JSW · LARSEN & TOUBRO

JBM Group Our milestones are touchstones · JINDAL STEEL & POWER · HONDA · Geeken Seating Collection · RATHI STEEL BARS Legacy of trust. Since 1942. · Quality ENVIRO ENGINEERS (P) LTD.

HK CEMENT · BEUMERGROUP · PREET · GOODLUCK STEELS · UltraTech CEMENT The Engineer's Choice · KL SONS

SWASTIK Furnaces Pvt. Ltd. · ADITYA BIRLA HINDALCO · BKT GROWING TOGETHER · ITL Industries Ltd. · SURYA · KEI Wires & Cables

MICRO TURNER · Kubota Escorts Kubota Limited · ENSOL · kathuria ROLLMILL · VELJAN · SAMCO People. Products. Passion.

GLOBAL PRESENCE

- Nepal
- Vietnam
- Srilanka
- Australia
- Kazakhstan
- Nigeria
- Saudi Arabia
- Qatar
- Oman
- Moracco

HPP

CONTACT US

Plot No. L -132, Sector-5, DSIIDC Industrial Area,
Bawana, New Delhi-110039, India.

+91-98 1194 0042
+91-98 1194 0043

sales.hpp2013@gmail.com
sales@hppgroup.in

www.hppgroup.in