

HHS/HHLF/HHLFS

Horizontal Multistage Stainless Steel Centrifugal Pump

Operating Limits:

- Liquid temperature:
Normal temperature type +15℃~+70℃
Hot water type + 70℃ ~105℃
- Max. ambient temperature: +40℃
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. operation pressure.
- Continuous duty

Motor:

- T.E.F.C. continuous
- Voltage: **50Hz:** 1x220~240V
3x220~240V/380~415V
60Hz: 1x220~240V
3x220~240V/380~415V
- Insulation class: F
- Protection: IP55
- Single-phase motor with built-in thermal protector

Applications:

- The HHS,HHLF and HHLFS series are primarily designed for the industrial purpose:
- Water treatment processes
 - Industrial cleaner and dishwasher
 - Water boosting on process
 - Heating and cooling for industrial process
 - Air-conditioning system
 - Air heating, heating device (soft water)
 - Water supply and boosting (drinking water, light chlorine water)
 - Fertilization/metering system
 - Other specific applications

Applicable Medium:

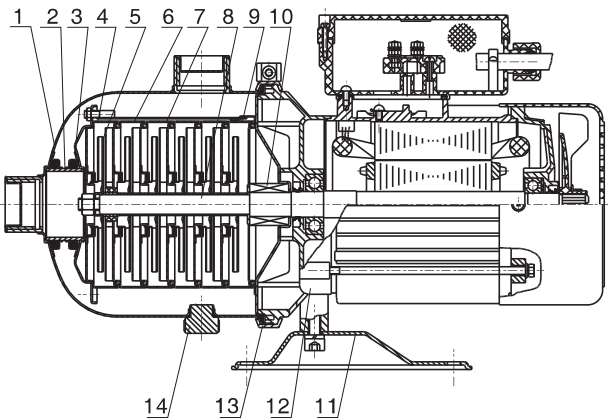
- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
- Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums.
- When density or viscosity of the liquid is higher than that of water.
- Whether the pump is suitable to convey the liquid depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

HHS/HHLF/HHLFS

Horizontal Multistage Stainless Steel Centrifugal Pump

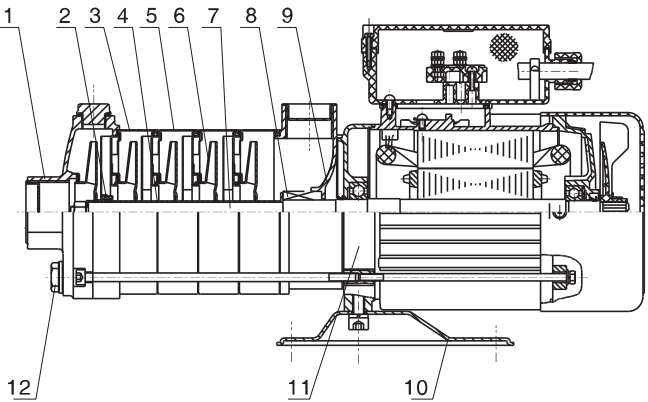
Structure Diagram:

MATERIAL HHS



NO.	NAME	MATERIAL
1	Pump casing	Stainless steel
2	Connection pipe	Stainless steel
3	Clamp plate	Stainless steel
4	Impeller	Stainless steel
5	Primary guide vane	Stainless steel
6	Support guide vane	Stainless steel
7	Middle section	Stainless steel
8	Shaft	Stainless steel
9	Outlet section	Stainless steel
10	Mechanical seal	
11	Base frame	Steel
12	Front cover	Aluminum alloy
13	Quick clamp holder	Stainless steel
14	Plug	Stainless steel

MATERIAL HHLF HHLFS



NO.	NAME	MATERIAL
2	Bearing sleeve	Hard alloy
3	Support guide vane	Stainless steel
4	Separating sleeve	Stainless steel
5	Middle section	Stainless steel
6	Impeller	Stainless steel
7	Shaft	Stainless steel
8	Mechanical seal	Ceramic/Graphite (or FPM/EPDM/SiC/WC)
10	Base frame	Steel
11	Front cover	Aluminum alloy
12	Plug	Stainless steel
HHLF		
1	Inlet section	Cast iron
9	Outlet section	Cast iron
HHLFS		
1	Inlet section	Stainless steel
9	Outlet section	Stainless steel



HHS



HHLF



HHLFS

Optional



Pump with presscontrol

HHS/HHLF/HHLFS

Horizontal Multistage Stainless Steel Centrifugal Pump

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)
HHS2-20(T)	0.37	2	14
HHS2-30(T)	0.37	2	21
HHS2-40(T)	0.55	2	28
HHS2-50(T)	0.55	2	35
HHS2-60(T)	0.75	2	42
HHS4-20(T)	0.55	4	15
HHS4-30(T)	0.75	4	22
HHS4-40(T)	0.75	4	30
HHS4-50(T)	1.0	4	38
HHS4-60(T)	1.1	4	45
HHS8-10(T)	0.55	8	12
HHS8-15(T)	0.75	8	20
HHS8-20(T)	1.0	8	24
HHS8-25(T)	1.5	8	27
HHS8-30(T)	1.85	8	30
HHS8-35(T)	2.2	8	43
HHS8-40(T)	2.2	8	48
HHS8-10B(T)	0.55	8	9
HHS8-20B(T)	0.75	8	19
HHS8-30B(T)	1.1	8	26
HHS8-40B(T)	1.5	8	37
HHS8-50B(T)	2.2	8	46.5
HHS12-10(T)	1.0	12	13.5
HHS12-15(T)	1.5	12	20
HHS12-20(T)	1.85	12	28
HHS12-25(T)	2.2	12	30.5
HHS12-30(T)	3.0	12	35
HHS12-10B(T)	0.75	12	9.5
HHS12-20B(T)	1.1	12	19.5
HHS12-30B(T)	1.85	12	29.5
HHS12-40B(T)	2.2	12	39.5
HHS12-50B(T)	3.0	12	50
HHS16-10(T)	1.0	16	10
HHS16-20(T)	1.5	16	20
HHS16-30(T)	2.2	16	30
HHS20-10(T)	1.0	20	10.5
HHS20-20(T)	1.85	20	20
HHS20-30(T)	3.0	20	31.5

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)
HHLF(S)2-20(T)	0.37	2	14
HHLF(S)2-30(T)	0.37	2	21
HHLF(S)2-40(T)	0.55	2	28
HHLF(S)2-50(T)	0.55	2	35
HHLF(S)2-60(T)	0.75	2	42
HHLF(S)4-20(T)	0.55	4	15
HHLF(S)4-30(T)	0.75	4	22
HHLF(S)4-40(T)	0.75	4	30
HHLF(S)4-50(T)	1.0	4	38
HHLF(S)4-60(T)	1.1	4	45
HHLF(S)8-10(T)	0.55	8	12
HHLF(S)8-15(T)	0.75	8	20
HHLF(S)8-20(T)	1.0	8	24
HHLF(S)8-25(T)	1.5	8	27
HHLF(S)8-30(T)	1.85	8	30
HHLF(S)8-35(T)	2.2	8	43
HHLF(S)8-40(T)	2.2	8	48
HHLF(S)8-10B(T)	0.55	8	9
HHLF(S)8-20B(T)	0.75	8	19
HHLF(S)8-30B(T)	1.1	8	26
HHLF(S)8-40B(T)	1.5	8	37
HHLF(S)8-50B(T)	2.2	8	46.5
HHLF(S)8-60BT	3.0	8	52
HHLF(S)12-10(T)	1.0	12	13.5
HHLF(S)12-15(T)	1.5	12	20
HHLF(S)12-20(T)	1.85	12	28
HHLF(S)12-25(T)	2.2	12	30.5
HHLF(S)12-30T	3.0	12	35
HHLF(S)12-10B(T)	0.75	12	9.5
HHLF(S)12-20B(T)	1.1	12	19.5
HHLF(S)12-30B(T)	1.85	12	29.5
HHLF(S)12-40B(T)	2.2	12	39.5
HHLF(S) 12-50BT	3.0	12	50
HHLF(S)16-10(T)	1.0	16	10
HHLF(S)16-20(T)	1.5	16	20
HHLF(S)16-30(T)	2.2	16	30
HHLF(S)16-40T	3.0	16	40
HHLF(S)20-10(T)	1.0	20	10.5
HHLF(S)20-20(T)	1.85	20	20
HHLF(S)20-30(T)	3.0	20	31.5
HHLF(S)20-40T	4	20	40

HML

Horizontal Multistage Stainless Steel Centrifugal Pump

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- Liquid temperature:
Normal temperature range +15℃~+70℃
Hot water range + 70℃ ~105℃
- Max. ambient temperature: +40℃
- Max. operation pressure: 10 bar
- Max. inlet pressure is limited by max. operation pressure.
- Continuous duty

Material:

- Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums. When density or viscosity of the liquid is higher than that of water.
- Whether the pump is suitable to convey the liquid depends on many factors, among which the most important ones are chlorine content, PH value, temperature, solvent and oil content.

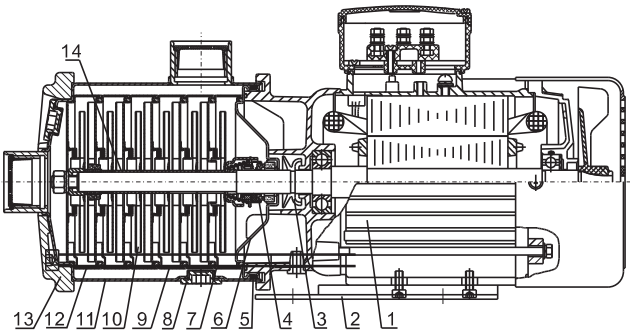
Application:

These series are primarily designed for the industrial purpose:

- Water treatment processes
- Industrial cleaner and dishwasher
- Water boosting on process
- Heating and cooling for industrial process
- Air-conditioning system
- Air heating, heating device (soft water)
- Water supply and boosting (drinking water, light chlorine water)
- Fertilization/metering system
- Other specific applications

Structure Diagram:

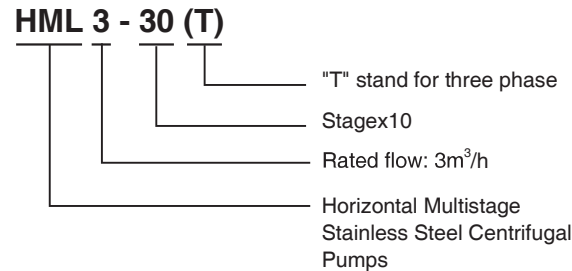
MATERIAL HML



Motor:

- T.E.F.C. continuous
Voltage: **50Hz:** 1x220~240V
3x220~240V/380~415V
- Insulation class: F
- Protection: IP55
- Single-phase motor with built-in thermal protector

Connotation Of The Type

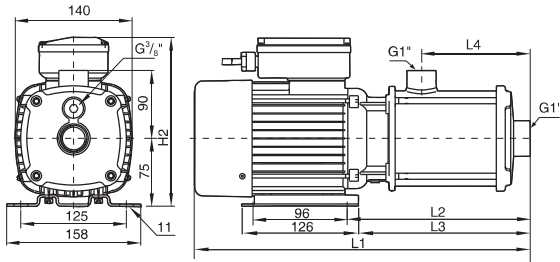


NO.	NAME	MATERIAL
1	Motor	
2	Baseframe	SS304/SS316
3	Slinger	SS304/SS316
4	Mechanical seal	Ceramic/Graphite
5	O-ring	NBR
6	Pump cover	SS304/SS316
7	Outlet section	SS304/SS316
8	Plug	SS304/SS316
9	Middle section	Stianless Steel
10	Impeller	Stianless Steel
11	Pump casing	SS304/SS316
12	Inlet section	SS304/SS316
13	Clamp plate	Cast iron / Aluminum die cast
14	Shaft sleeve	SS304/SS316

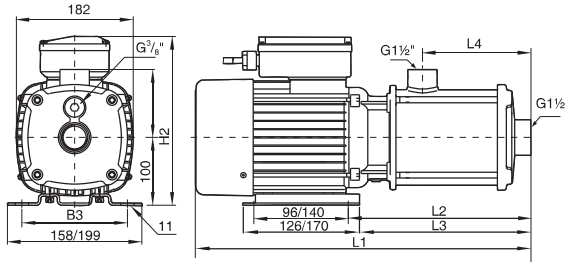
HML

Horizontal Multistage Stainless Steel Centrifugal Pump

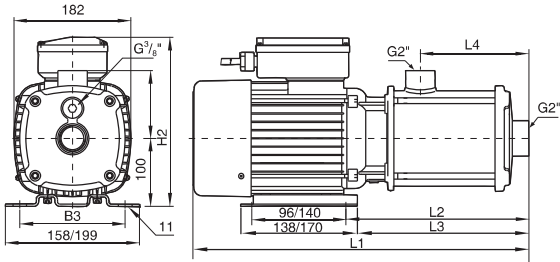
Installation Dimensions:



HML1/HML3/HML5



HML8/HML8B/HML10/HML12/HML12B



HML16/HML20

Performance Table:

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
1-20(T)	0.25	1	17	187	174	-	318	131	113	72
1-30(T)	0.25	1	25	187	174	-	318	131	113	72
1-40(T)	0.37	1	33	187	174	-	336	149	131	90
1-50(T)	0.37	1	39	187	174	-	354	167	149	108
1-60(T)	0.37	1	45	187	174	-	390	203	185	144
3-20(T)	0.25	3	15	187	174	-	318	131	113	72
3-30(T)	0.37	3	21	187	174	-	318	131	113	72
3-40(T)	0.55	3	28	187	174	-	336	149	131	90
3-50(T)	0.55	3	35	187	174	-	354	167	143	108
3-60(T)	0.75	3	41	200	188	-	390	203	179	144
5-20(T)	0.37	5	13	187	174	-	318	131	113	72
5-30(T)	0.55	5	22	187	174	-	347	131	113	72
5-40(T)	0.75	5	27	200	188	-	362	149	125	90
5-50(T)	1	5	35	200	188	-	380	167	143	108
5-60(T)	1.3	5	44	224	211	-	446	243	228	144
10-10(T)	0.65	10	12	240	209	125	399	185	161	105
10-20(T)	1.2	10	24	240	210	160	450	219	204	105
10-30(T)	2.2	10	36	-	220	160	537	265	250	135
10-40T	3.0	10	48	-	220	160	597	325	310	195
10-50T	3.0	10	65	-	220	160	597	325	310	195

HML

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MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
8-10(T)	0.55	8	12	187	174	125	318	131	113	72
8-15(T)	0.75	8	20	187	174	125	318	131	113	72
8-20(T)	1.0	8	24	240	209	125	399	185	161	105
8-25(T)	1.5	8	27	240	209	125	399	185	161	105
8-30(T)	1.85	8	36	240	210	125	399	185	161	105
8-35(T)	2.2	8	43	-	220	160	450	219	204	105
8-40(T)	2.2	8	48	-	220	160	597	325	310	195

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
8-10B(T)	0.55	8	9	187	174	125	318	131	113	72
8-20B(T)	0.75	8	19	187	174	125	318	131	113	72
8-30B(T)	1.0	8	26	240	209	125	399	185	161	105
8-40B(T)	1.5	8	37	240	209	125	399	185	161	105
8-50B(T)	2.2	8	46.5	-	210	160	450	219	204	105
8-60BT	3.0	8	52	-	220	160	597	325	310	195

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
12-10(T)	1.0	12	13.5	187	174	125	318	131	113	72
12-15(T)	1.5	12	20	240	209	125	399	185	161	105
12-20(T)	1.85	12	28	240	209	125	399	185	161	105
12-25(T)	2.2	12	33.5	-	210	160	450	219	204	105
12-30T	3.0	12	39	-	220	160	597	325	310	195

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
12-10B(T)	0.75	12	9.5	187	174	125	318	131	113	72
12-20B(T)	1.1	12	19.5	240	209	125	399	185	161	105
12-30B(T)	1.85	12	29.5	240	209	125	399	185	161	105
12-40B(T)	2.2	12	39.5	-	210	160	450	219	204	105
12-50BT	3.0	12	50	-	220	160	597	325	310	195

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
16-10(T)	1.0	16	10	187	174	125	318	131	113	72
16-20(T)	1.5	16	20	240	209	125	399	185	161	105
16-30(T)	2.2	16	30	240	209	125	399	185	161	105
16-40T	3.0	16	40	-	210	160	450	219	204	105

MODEL	POWER P2(KW)	RATED FLOW (m³/h)	RATED HEAD (m)	SIZE (mm)						
				H2		B3	L1	L2	L3	L4
				Single-phase	Three-phase					
20-10(T)	1.0	20	10.5	187	174	125	318	131	113	72
20-20(T)	1.85	20	20	240	209	125	399	185	161	105
20-30T	3.0	20	31.5	-	210	160	450	219	204	105
20-40T	4.0	20	40	-	210	160	450	219	204	105