

 ShenGang Street, Jiangyin City, Jiangsu, China

 info@virheos.com, julian@virheos.com
contact@virheos.com

 +86 18118922905

<https://virheos.com>

IHF

**SINGLE STAGE SINGLE SUCTION LINING
FLUORINE PLASTIC CHEMICAL CENTRIFUGAL PUMP**



• Working Conditions

Pump Diameter:25mm-400mm Working Temperature:-20-180

Flow Capacity Range:1.6m³/h-2600m³/h Pump Head Range:5m-130m

Materials Range:Lining FEP(F46),PFA

Designed Standard:GB/T9969.1 ISO5828 HG/T3183

• Application Fields

Biological medicine, petrochemical, mining, metallurgy, textile printing and dyeing, electricity, food, papermaking, electroplating, sewage treatment, flue gas treatment, new energy, new materials, and other industries.

• Pump Usage

Transporting various concentrations of sulfuric acid, hydrochloric acid, nitric acid, aqua regia, hydrofluoric acid, strong alkalis, strong oxidizing agents, reducing agents, and chloride-containing media, which are highly corrosive. It can withstand all media that stainless steel is insufficient to resist, replacing pumps made from expensive materials such as titanium alloys and Monel alloys.

Designed Instruction

IHF single-stage single-suction horizontal fluorine plastic centrifugal pump is designed and manufactured in accordance with international standards, integrating non-metallic pump design and manufacturing processes. The pump body features a metal shell lined with FEP (F46, PFA), while the pump cover, impeller, and shaft sleeve are fluorine plastic components with metal inserts, produced through outsourcing whole sintering and compaction. The shaft seal is mounted externally, utilizing an advanced bellows mechanical seal; static components employ 99.9% alumina or silicon carbide rings, with four fluorine-based filling materials to ensure superior corrosion-resistant sealing performance. The pump's inlet and outlet adopt cast steel reinforcement to enhance bearing capacity and overall pump performance. Practical application demonstrates that the pump exhibits excellent corrosion resistance, abrasion resistance, high-temperature resistance, non-aging properties, high mechanical strength, smooth operation, rational structure, advanced technology, reliable sealing performance, ease of disassembly and maintenance, and extended service life.

Performance Parameter Table

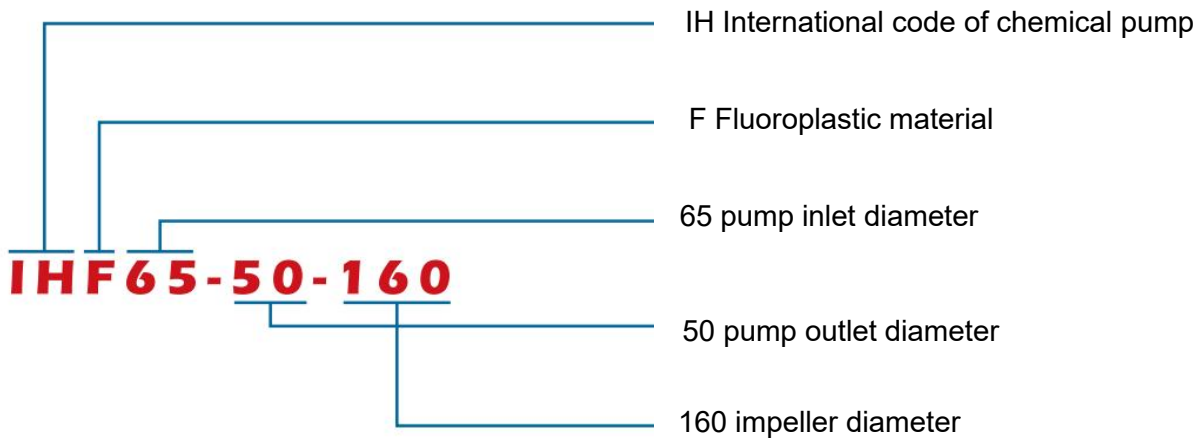
Model No	FlowCapacity (m3/h)	PumpHead (m)	MotorPower (KW)	RoangSeed (r/min)	Efficiency (%)	NPSH (m)	Diameter (mm)	
							Inlet	Outlet
IHF40-25-125	4	23	1.5	2900	32%	2.5	40	25
	6	20						
	8	18.5						
	2	5.5	0.55	1450	28%	2.5		
	3	5						
	4	4.5						
IHF40-25-160	4	34	2.2	2900	30%	3	40	25
	6	32						
	8	28						
	2	9	0.55	1450	24%	3		
	3	8						
	4	7						
IHF40-25-200	4	52	4	2900	26%	3	40	25
	6	50						
	8	48						
	2	13.5	0.75	1450	22%	3		
	3	12.5						
	4	12						
IHF40-25-250	4	82	7.5	2900	22%	4.5	40	25
	6	80						
	8	78						
	2	20.5	1.5	1450	20%	4.5		
	3	20						
	4	19.5						
IHF50-32-125	10	23	2.2	2900	51%	3	50	32
	12.5	20						
	15	18.5						
	5	5.5	0.55	1450	46%	3		
	6.3	5						
	8	4.5						
IHF50-32-160	10	34	4	2900	41%	3	50	32
	12.5	32						
	15	28						
	5	9	0.55	1450	37%	3		
	6.3	8						
	8	7						
IHF50-32-200	8	52	7.5	2900	36%	3	50	32
	12.5	50						
	17	48						
	5	13.5	1.1	1450	30%	3		
	6.3	12.5						
	8	12						
IHF50-32-250	10	82	15	2900	30%	4.5	50	32
	12.5	80						
	15	78						
	5	20.5	1.5	1450	26%	4.5		

Model No	Flow Capacity (m ³ /h)	Pump Head (m)	Motor Power (KW)	Rotational Speed (r/min)	Efficiency (%)	NPSH (m)	Diameter (mm)	
							Inlet	Outlet
	6.3	20						
	8	19.5						
IHF65-50-125	15	23	3	2950	58%	3.5	65	50
	25	20						
	30	18.5						
	7.5	5.5	0.55	1450	52%	3.5		
	12.5	5						
	15	4.5						
IHF65-50-160	15	34	5.5	2900	50%	3.5	65	50
	25	32						
	30	28						
	7.5	9	1.1	1450	45%	3.5		
	12.5	8						
	15	7						
IHF65-40-200	15	52	11	2900	46%	3.5	65	40
	25	50						
	30	48						
	7.5	13.5	1.5	1450	40%	3.5		
	12.5	12.5						
	15	12						
IHF65-40-250	15	82	18.5	2900	43%	3.5	65	40
	25	80						
	30	78						
	7.5	20.5	3	1450	39%	3.5		
	12.5	20						
	15	19.5						
IHF80-65-125	40	23	7.5	2900	48%	4	80	65
	50	20						
	60	18.5						
	15	5.5	1.1	1450	43%	4		
	25	5						
	30	4.5						
IHF80-65-160	40	34	11	2900	61%	4	80	65
	50	32						
	60	28						
	15	9	1.5	1450	56%	4		
	25	8						
	30	7						
IHF80-50-200	35	52	15	2900	63%	4	80	50
	50	50						
	60	48						
	15	13.5	2.2	1450	57%	4		
	25	12.5						
	30	12						
IHF80-50-250	35	82	30	2900	49%	4.5	80	50
	50	80						
	60	78						
	15	20.5	5.5	1450	46%	4.5		
	25	20						

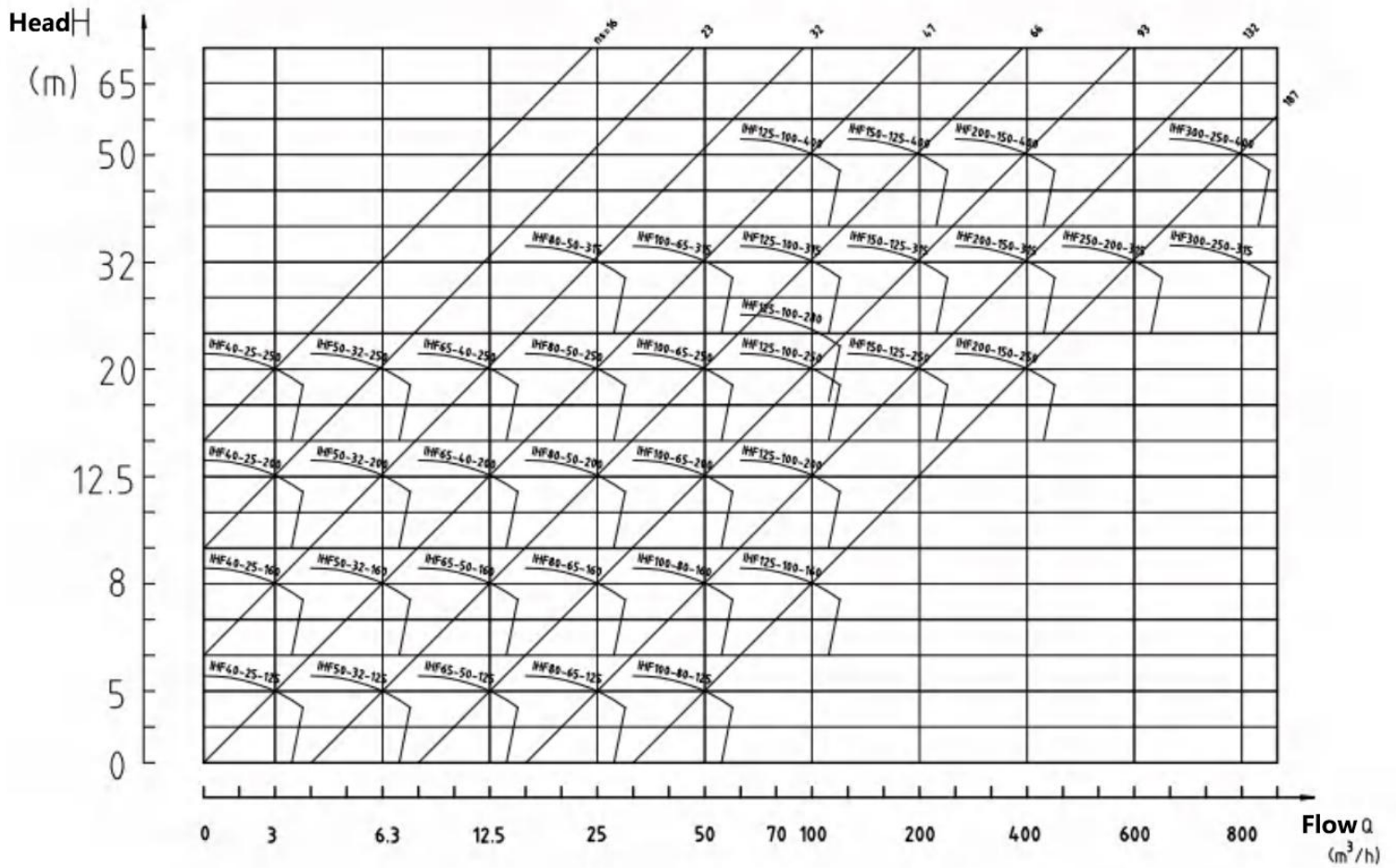
Model No	FlowCapacity (m3/h)	PumpHead (m)	MotorPower (KW)	RoangSeed (r/min)	Efficiency (%)	NPSH (m)	Diameter (mm)	
							Inlet	Outlet
	30	19.5						
IHF80-50-315	40	127	45	2900	42%	5	100	80
	50	125						
	60	120						
	15	34	11	1450	35%	5		
	25	32						
	30	30						
IHF100-80-125	80	22	15	2900	54%	4.5	100	80
	100	20						
	120	18.5						
	40	5.5	2.2	1450	50%	4.5		
	50	5						
	60	4.5						
IHF100-80-160	80	34	18.5	2900	67%	4.5	100	80
	100	32						
	120	28						
	40	9	2.2	1450	63%	4.5		
	50	8						
	60	7						
IHF100-65-200	80	52	30	2900	70%	4.5	100	65
	100	50						
	120	48						
	40	13.5	5.5	1450	66%	4.5		
	50	12.5						
	60	12						
IHF100-65-250	70	82	45	2900	65%	5	100	65
	100	80						
	120	78						
	40	20.5	7.5	1450	62%	5		
	50	20						
	60	19.5						
IHF100-65-315	70	127	75	2900	50%	5.2	100	65
	100	125						
	120	123						
	40	34	15	1450	46%	5.2		
	50	32						
	60	30						
IHF125-100-160	130	34	30	2900	61%	5	125	100
	150	32						
	170	28						
	65	9	4	1450	56%	5		
	75	8						
	85	7						
IHF125-100-200	130	52	45	2900	63%	5	125	100
	150	50						
	170	48						
	65	13.5	11	1450	55%	5		
	75	12.5						
	85	12						

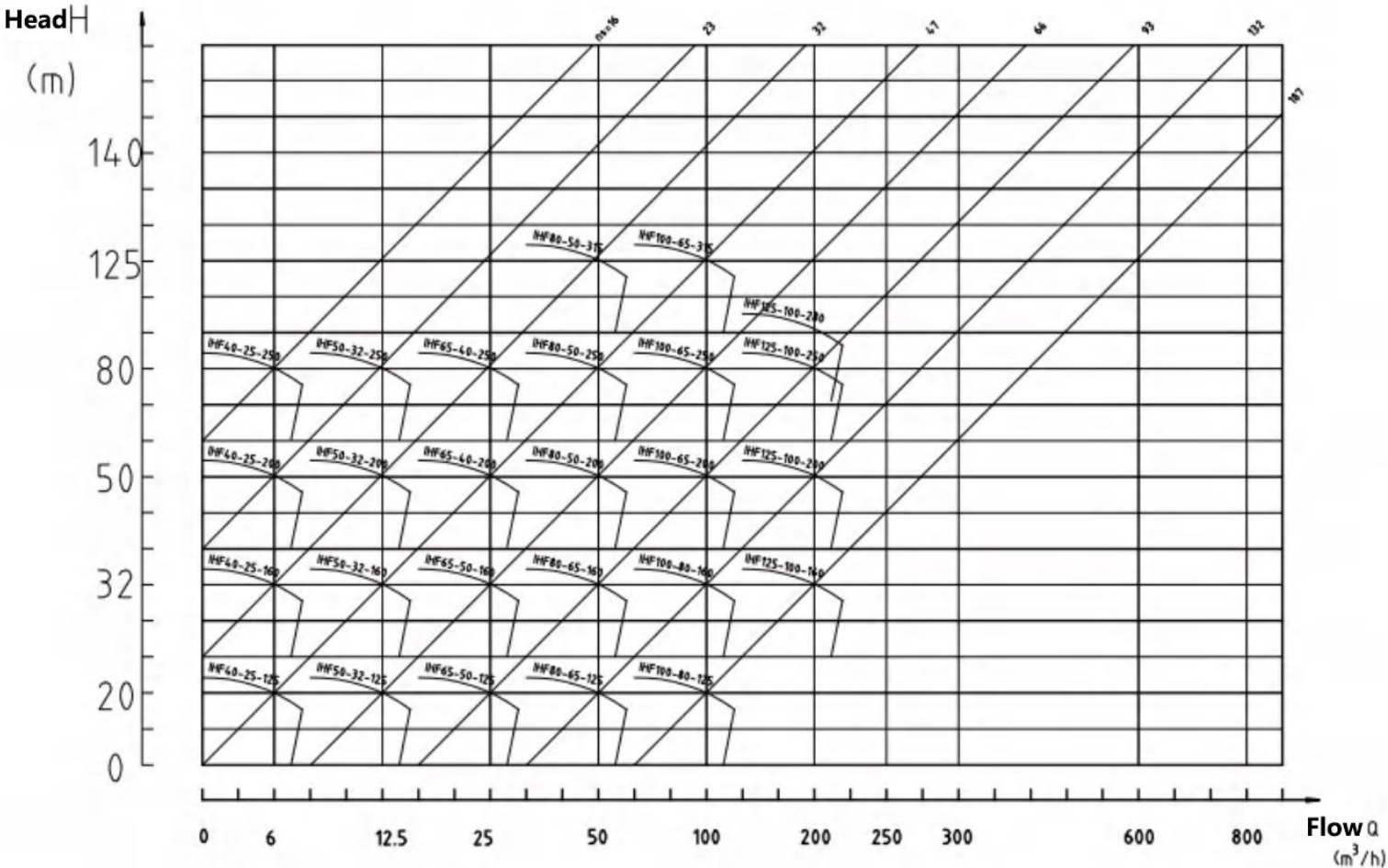
Model No	FlowCapacity (m ³ /h)	PumpHead (m)	MotorPower (KW)	RoangSeed (r/min)	Efficiency (%)	NPSH (m)	Diameter (mm)	
							Inlet	Outlet
IHF125-100-280	150	102	110	2900	60%	6		
	200	100						
	240	96						
	80	27	18.5	1450	56%	6		
	100	25						
	120	23						
IHF125-100-315	80	34	18.5	1450	60%	5.5		
	100	32						
	120	30						
IHF125-100-400	80	53	30	1450	65%	6	125	100
	100	50						
	120	48						
IHF150-125-250	150	20.5	22	1450	60%	5	150	125
	200	20						
	240	18						
IHF150-125-315	150	34	30	1450	70%	5.5	150	125
	200	32						
	240	30						
IHF150-125-400	150	52	55	1450	65%			
	200	50						
	240	48						
IHF200-150-250	250	21	45	1450	58%	6		
	400	20						
	480	18						
IHF200-150-315	250	34	75	1450	60%	6	200	150
	400	32						
	480	30						
IHF200-150-400	250	52	90	1450	67%	6.5		
	400	50						
	480	48						
IHF250-200-315	400	34	90	1450	75%	6.5	250	200
	600	32						
	700	28						
IHF250-200-400	400	53	132	1450	68%	6.5		
	600	50						
	700	47						
IHF300-250-315	800	34	160	1450	80%	7	300	250
	950	32						
	1100	30						
IHF300-250-400	800	53	185	1450	77%	7		
	980	50						
	1100	47						
IHF400-350-600	2000	32	355	980	65%	6	400	350
IHF550-500-800	3600	36	710	750	65%	5	550	500

Model significance



Performance Curve





Three dimensional figure and material structure

