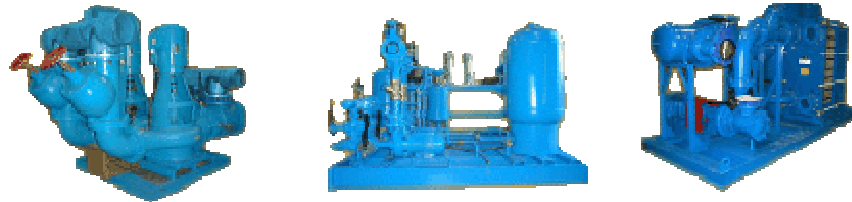


Packaged Pumping Systems Series "FAST PAK"



The Alstrom Corporation designs and manufactures various types of packaged pumping systems for many different applications.

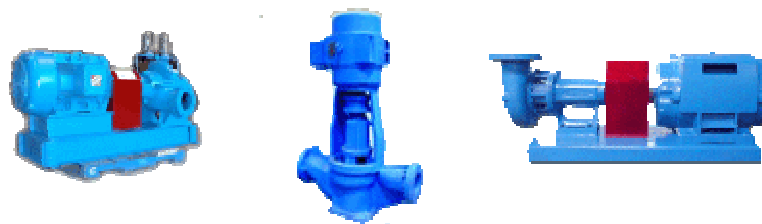


We offer a wide range of packaged HVAC systems to fit your specific needs. Our Packaged Pumping Systems offer the following advantages over field assembled systems: factory hydrostatic, flow and sequence testing, lower installed cost, increased system efficiency, reduced field complexity, single source responsibility, single point power connection, simplified field piping, smaller footprint and more.

- Variable Speed or Constant Speed Pumping
- Primary Chilled Water
- Secondary Chilled Water
- Primary/Secondary Systems
- Heating Water Systems
- Condenser and Feed Water Systems
- Heat Transfer Package Systems
- Fuel Transfer Systems
- Glycol Fill Systems

Everything is self-contained, prewired, installed on the skids and pretested. Custom units are available to meet your specifications.

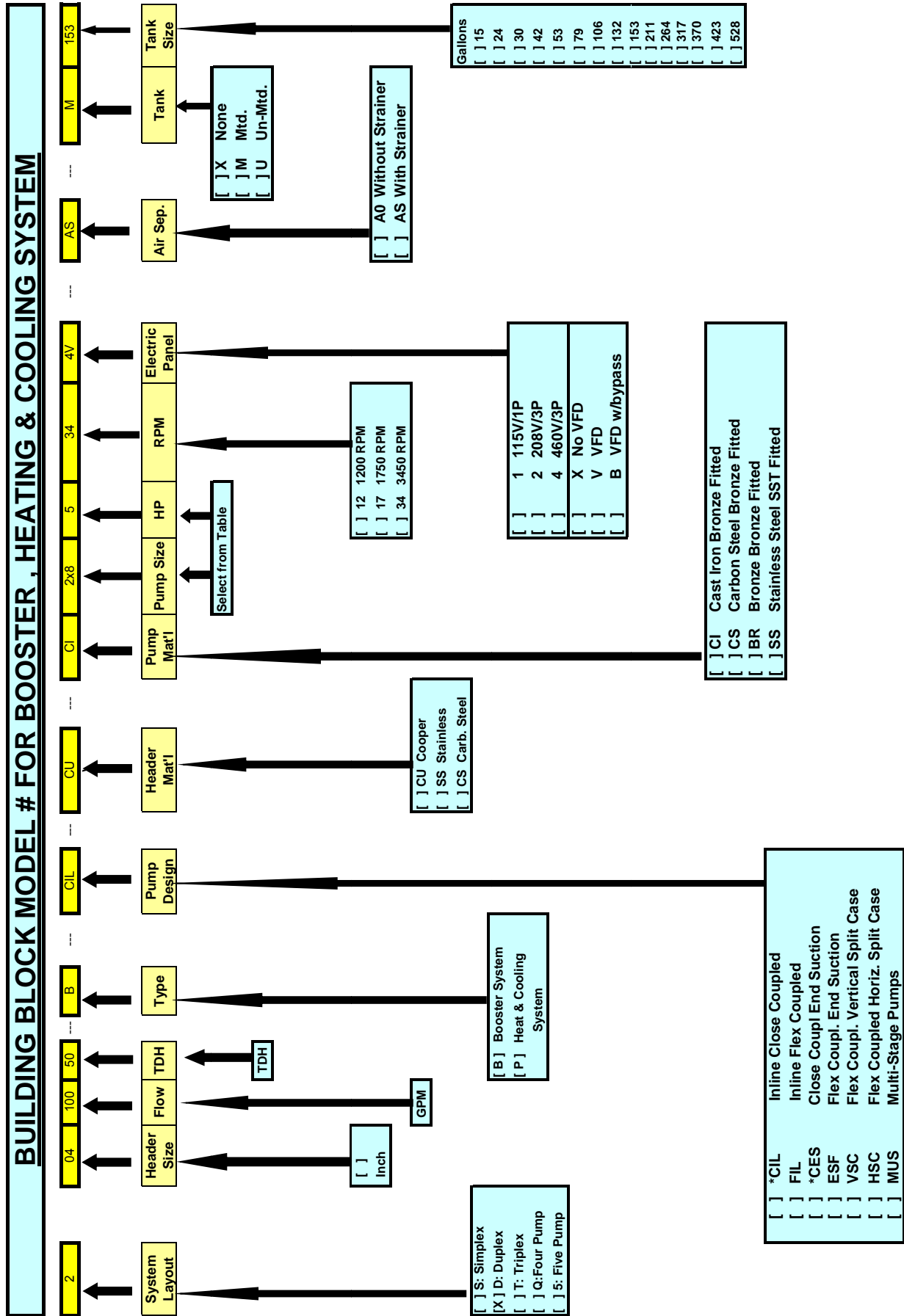
Circulating, Double Suction Centrifugal Stainless Steel, End Suction, Inline, Horizontal Split Case, Multistage, Submersible, Sump and Sewage Column Pumps.



Air Separators, Expansion Tanks, Triple Duty and Balancing Valves, Butterfly Valves, Check Valves, Flexible Hoses, Thermometers, Pressure Gauges.



Packaged Pumping Systems
Series "FAST PAK"



Packaged Pumping Systems Series "FAST PAK"



BUILDING BLOCK FOR PUMPING SYSTEM SKIDS

(1)	[] [] [] [] []	SYSTEM LAYOUT Simplex Duplex Triplex Quadruplex Five Pumps	(8)	[]	PUMP SIZE IN / OUT & CASING SIZE
(2)	[]	HEADER SIZE SIZE INCHES	(9)	[]	HP MOTOR 5 ETC
(3)	[]	FLOW GPM	(10)	[] [] []	RPM 1200 RPM 1750 RPM 3450 RPM
(4)	[] []	HEAD PRESSURE TDH	(11)	[] [] [] [] [] []	ELECTRIC PANEL 115 / 1 Volts 208 / 3 Volts 460 / 3 Volts No VFD Without By Pass With By Pass
(5)	[] [] [] [] [] [] []	PUMP DESIGN *CIL Inline Close Coupled FIL Inline Flex Coupled *CES Close Coupled End Suction ESF Flex Coupled End Suction HSC Flex Coupled Horizontal Frame Split Case VSC Flex Coupled Vertical Frame Split Case MUS Multi-Stage Pumps	(12)	[] []	AIR SEPERATOR Without Strainer With Strainer
(6)	[] [] []	HEADER MATERIAL Copper Stainless Steel Carbon Steel	(13)	[] [] []	EXPASION TANK None Mounted Mounted Un- Mounted
(7)	[] [] [] []	PUMP MATERIAL Cast Iron Bronze Fitted Carbon Steel Bronze Fitted Bronze Bronze Fitted Stainless Steel SST Fitted	(13)	[]	TANK SIZE GALLONS 15, 24, 30, 42, 63, 79, 106, 132, 153, 211, 264, 317, 370, 423, 528

Packaged Pumping Systems Series "FAST PAK"



FAST PAK BOOSTER, HEATING & COOLING PUMPING SYSTEM													
FLOW GPM	SIZE INCHES	PSI	20	25	30	35	40	45	50	60	70	80	100
			FT	58	69	81	92	104	115	139	162	185	231
50			IL1.255-1.5-34	IL1.255-1.5-34	IL1.255-1.5-34	IL1.255-2-34	IL1.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34
75			IL1.255-1.5-34	IL1.255-1.5-34	IL1.255-2-34	IL1.255-2-34	IL1.53-3-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34
100			IL1.255-1.5-34	IL1.255-2-34	IL1.255-3-34	IL1.53-3-34	IL1.53-3-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34
125			IL1.255-2-34	IL1.255-2-34	IL1.255-3-34	IL1.53-3-34	IL1.53-3-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34	IL2.255-2-34
150	3		IL35-2-34	IL35-3-34	IL35-3-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
175			IL35-2-34	IL35-3-34	IL35-3-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
200			IL35-2-34	IL35-3-34	IL27-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
250			IL35-2-34	IL35-3-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
300			IL35-3-34	IL35-3-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
350			IL35-3-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
400			IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
450	4		IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34	IL35-5-34
500			IL25-7.5-34	IL35-7.5-34	IL37-7.5-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34	IL1.57-10-34
600			ES38-5-17	ES310-7.5-17	ES2.510-7.5-17	ES2.510-10-17	ES310-15-17	ES310-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17
700			ES38-5-17	ES310-7.5-17	ES310-10-17	ES310-10-17	ES310-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17
800	6		ES310-7.5-17	ES310-7.5-17	ES310-10-17	ES310-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17
900			ES310-7.5-17	ES310-10-17	ES310-10-17	ES310-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17	ES312-15-17
1000			ES48-7.5-17	ES310-10-17	ES310-15-17	ES310-15-17	ES410-15-17	ES312-15-17	ES312-15-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17
1200			ES410-10-17	ES410-15-17	ES310-15-17	ES410-20-17	ES410-20-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17
1400			ES410-15-17	ES410-15-17	ES410-15-17	ES410-20-17	ES412-20-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17	ES412-25-17
1600	8		ES410-15-17	ES410-15-17	ES410-20-17	ES412-20-17	ES412-25-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17
1800			ES510-15-17	ES510-20-17	ES510-25-17	ES412-25-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17
2000	10		ES510-15-17	ES510-20-17	ES510-25-17	ES510-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17	ES412-30-17

CODE: IL35-5-34

ES3 10-15-17

END SUCTION
SIZE 4X3X10
HP 15
RPM 1750

INLINE PUMP
SIZE 3X3X5
HP 5
RPM 3450



11 Jocama Blvd., Suite 11A, Old Bridge NJ 08857 USA p. 718.824.4901 f. 718.409.3605 www.alstromenergygroup.com

VELOCITY TO GPM CONVERSIONS

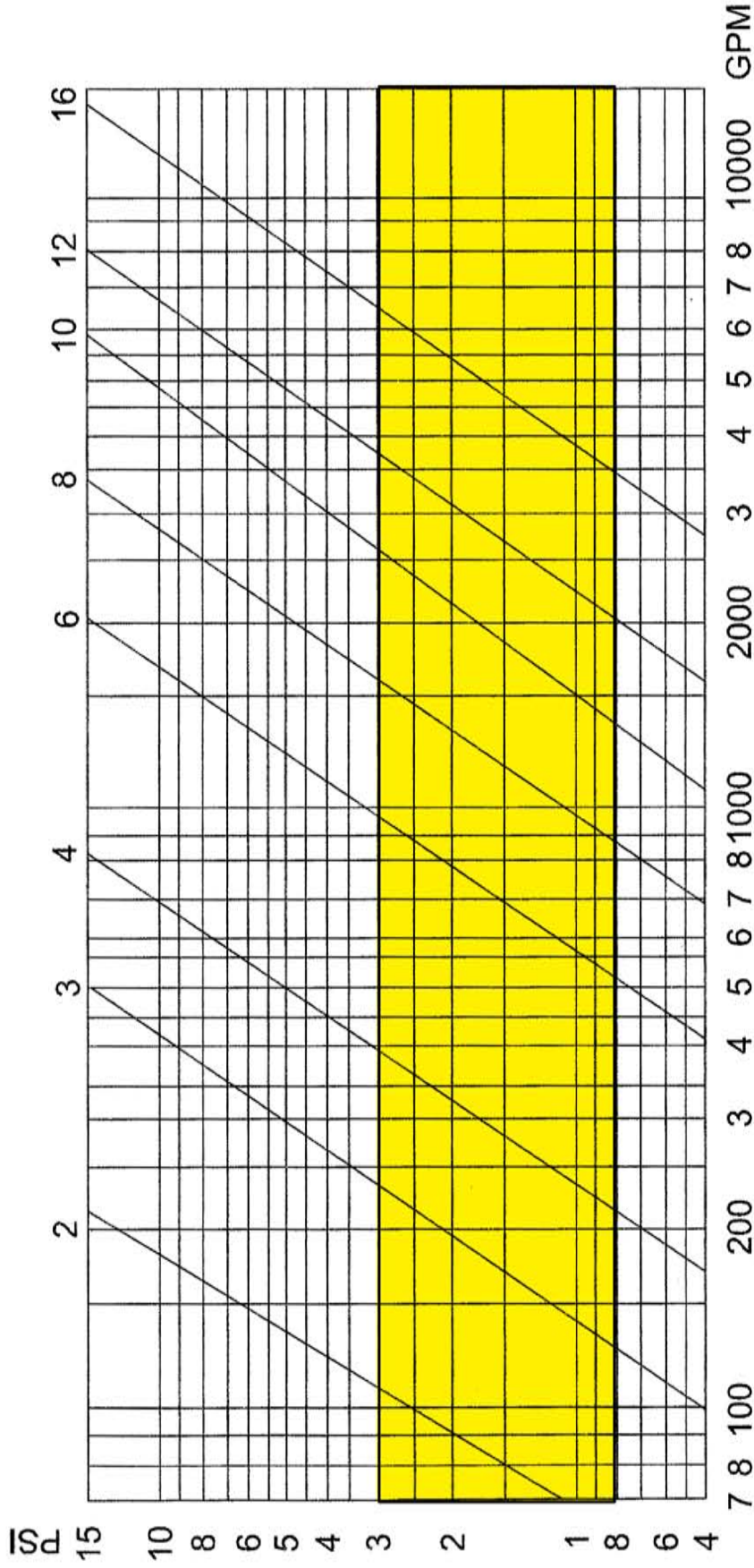
in standard wall pipes*

Flow Velocity (ft/sec) x Factor (1 ft/sec) = GPM

Typical HVAC Design Maximum Flow = 4 to 8 ft/sec

Nominal Pipe Size	GPM @ 1 ft/sec	GPM @ 2 ft/sec	GPM @ 4 ft/sec	GPM @ 8 ft/sec	GPM @ 10 ft/sec	GPM @ 12 ft/sec
0.75*	1.7	3.3	6.6	13	17	20
1*	2.7	6	12	24	30	36
1.25*	4.7	9.3	19	37	47	56
1.5*	6.4	13	25	51	64	76
2*	11	21	42	84	105	126
2.5*	15	30	60	119	149	179
3*	23	46	92	184	230	279
4*	40	79	159	318	397	476
6*	90	180	360	720	900	1080
8*	156	312	624	1248	1560	1872
10*	246	492	984	1968	2460	2952
12	353	706	1412	2824	3530	4236
14	430	860	1720	3440	4300	5160
16	569	1138	2276	4552	5690	6828
18	728	1456	2912	5824	7280	8736
20	907	1814	3628	7256	9070	10884
24	1323	2646	5292	10584	13230	15876
30	2094	4188	8378	16755	20940	25133
36	3042	6084	12168	24336	30420	36504
42	4165	8330	16660	33320	41650	49980
48	5465	10930	21861	43722	54650	65583

* Standard Wall and Schedule 40 are the same up to 10"



TYPICAL DRAWING, FINALE DIMENSIONS AND DESIGN MAY VARY

TRIPLE DUTY VALVE SELECTION CHART



PROJECT/PROJET		CUSTOMER / CLIENT	
PART LIST N° / LISTE DE MATERIEL N°		DATE / DATE	
DRAWING N° / N° DESSIN		SERIES MFV	
SCALE / ECHELLE		REV	
ALEX V.	N/A		0

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