



American-Marsh Pumps Series 380 HH Two-Stage



A WILO BRAND

Horizontal Multi-Stage Split Case Pumps

August 2004

ENGINEERING INFORMATION

Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
2.5x3-9 HH	1.437	1.437	1.750	1.181	1.062	2	Enclosed - 6	9.250	7.000	10.000	0.062	6.563

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
2.5x3-9 HH	0.018	1.750	6406	6406	20.000	50000	3	2.625	2.875	0.375	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88



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ENGINEERING INFORMATION

Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
2x3-8 HH	1.187	1.187	1.500	0.984	0.875	2	Enclosed - 6	8.125	6.000	8.625	0.062	4.750

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
2x3-8 HH	0.014	1.500	6405	6405	18.688	50000	3	2.250	2.875	0.375	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88



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ENGINEERING INFORMATION

Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
2x3-10 HH	1.437	1.437	1.750	1.181	1.062	2	Enclosed - 6	10.000	8.000	10.500	0.062	5.250

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
2x3-10 HH	0.018	1.750	6406	6406	20.000	50000	3	2.625	2.875	0.375	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88



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ENGINEERING INFORMATION

Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
3x4-9 HH	1.437	1.437	1.750	1.181	1.062	2	Enclosed - 6	9.000	7.000	9.500	0.062	8.250

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
3x4-9 HH	0.018	1.750	6406	6406	20.000	50000	3	2.625	2.875	0.375	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88



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Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
3x4-11 HH	1.625	1.625	2.000	1.378	1.250	2	Enclosed - 6	11.250	9.000	12.000	0.062	8.625

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
3x4-11 HH	0.020	2.000	6407	6407	22.625	50000	6	3.000	3.250	0.500	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88



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ENGINEERING INFORMATION

Pump Model	Shaft					Impeller						
	Diameter @ Impeller	Diameter In Stuffing Box		Diameter Between Bearings	Diameter @ Coupling	Number Of Stages	Type / Number Of Vanes	Maximum Diameter	Minimum Diameter	Cutwater Diameter	Maximum Solids Diameter	Eye Area
		Less Sleeve	With Sleeve									
Units	in.	in.	in.	in.	in.	#	#	in.	in.	in.	in.	in. ²
4x5-11 HH	2.000	2.000	2.375	1.575	1.438	2	Enclosed - 6	11.000	8.000	11.750	0.062	14.250

Pump Model	Clearances	Sleeve	Bearings					Stuffing Box					Gasket
	Impeller To Case Wear Ring (Max)	O.D. Thru Stuffing Box	Radial	Thrust	Bearing Span	Average L10 Bearing Life	Oil Sump Capacity	Bore	Depth	Packing Cross Section (Square)	Number of Rings of Packing (Suction Side)*	Number of Rings of Packing (Discharge Side)*	Casing Gasket Thickness
Units	in.	in.	Type	Type	in.	hrs.	oz.	in.	in.	in.	#	#	in.
4x5-11 HH	0.022	2.375	6408	6408	25.188	50000	6	3.375	3.750	0.500	5 (2)	6	0.031

Note: * (Number) indicates the number of rings of packing installed before the lantern ring.

MATERIALS OF CONSTRUCTION

Pump Const.	Casing	Case Wear Rings	Bearing Housing	Impeller	Impeller Wear Rings (Optional)	Shaft	Shaft Sleeves	Shaft Sleeve Nuts	Stage Pieces
CI/BZ	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Cast Iron A48 Class 30	Bronze B505 Alloy C83600	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600
CI/CI	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Cast Iron A48 Class 30	Stainless Steel A276 Type 420	Bronze B505 Alloy C83600	Stainless Steel A276 Type 420	Cast Iron A48 Class 30
CI/Ni-R	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Cast Iron A48 Class 30	Ni-Resist A436 Grade 2B	Ni-Resist A436 Grade 2B	Stainless Steel A276 Type 420	Stainless Steel A276 Type 316	Stainless Steel A276 Type 420	Ni-Resist A436 Grade 2B
CI/316SS	Cast Iron A48 Class 30	Stainless Steel A-494 Grade WM88	Cast Iron A48 Class 30	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88
ALL 316SS	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A743 Grade CF8M	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88	Stainless Steel A276 Type 316	Stainless Steel A276 Type 316	Stainless Steel A743 Grade CF8M	Stainless Steel A-494 Grade WM88