

Summary

The Winflo VLW series is a vertical in-line centrifugal pump with a rigid split-coupled motor-to-pump connection, eliminating on-site shaft alignment. Its compact in-line design saves plantroom floor space, while easy mechanical-seal access allows maintenance without disturbing the motor or pipework.

Features

- **Ultra-compact installation** — can save up to 80% floor space compared with a conventional split-case pump arrangement of equivalent duty.
- **Fast & simple maintenance** — rigid split-coupled design with internal mechanical seal provides permanent shaft alignment, easy seal access without disturbing motor or pipework.
- **Superior seal reliability** — internally flushed mechanical seal eliminates external flush lines and offers maintenance free design with improved resistance to dirt, debris and abrasive water conditions compared with conventional split coupled pumps with outside mechanical seals.
- **Premium construction** — high-strength ductile-iron casing with corrosion-resistant coating, AISI 316L stainless-steel impeller and shaft options.
- **Highest-efficiency pumps** — IE5 asynchronous motors paired with CFD optimized hydraulics minimize kW selection and energy consumption.
- **Flexible installation** — suitable for pipeline-supported or base-mounted installation using integral pump feet or an optional factory-supplied baseplate.



Applications



HVAC



Industrial



Water supply



Irrigation

Specifications

Motor

Parameter	Value
Motor technology	Asynchronous induction
Motor protection	IP55
Insulation class	F
Nominal supply	3-phase, 400 V, 50 Hz
Efficiency class	IE3 / IE4 / IE5
Ambient temperature	-20 °C to +40 °C
Service/Duty Type	S1 (Continuous)

Other voltage, insulation, temperature and protection class configurations are available upon request.

Operating Conditions

Parameter	Value
Capacity	Up to 1300 m³/h
Head	Up to 85m
Discharge flange	DN40 – DN300
Max working pressure	16 Bar (default), 25 bar
Liquid temperature range	-25°C~+110°C

Components

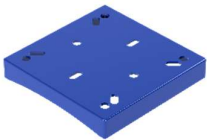
ID	Component	Material of Construction
A	Casing	Ductile iron
B	Impeller	AISI 316L (default); AISI 304 or cast iron
C	Shaft	AISI 316L (default); AISI 420, AISI 431
D	Mechanical Seal	Silicon Carbide/Silicon Carbide (default), Silicon Carbide/Graphite
E	O-Ring	EPDM (default), NBR, FKM, FFKM

Certifications & Standards

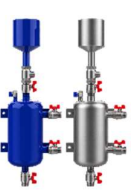


- Flange connection: BS EN 1092-2
- Pressure testing: BS EN 12266-1

Accessories

		
Pump Baseplate	Suction diffuser	Triple-duty valve
		
Butterfly valve	Silent globe check valve	

Other Hydronic Solutions

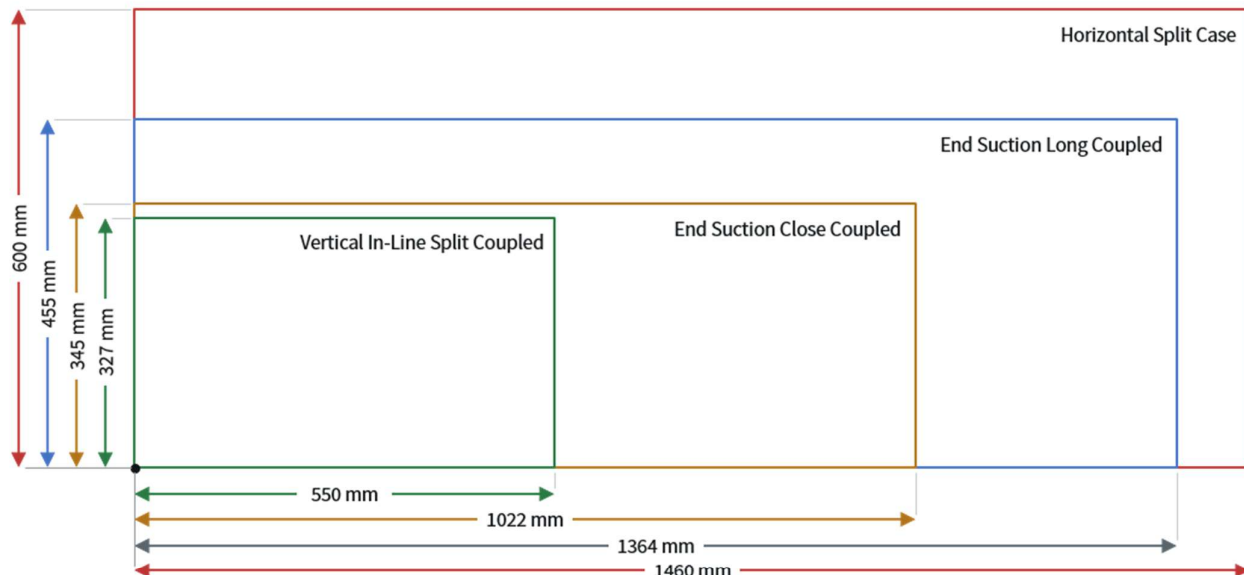
			
Hydronic Separators	Static & Dynamic Pressurisation units	Vacuum Degasser	Expansion Tanks
			
Chemical Dosing System	Manual Dosing Pot	Pressure Independent Control Valves (PICV)	Control Valves: Two Way & Three Way Valves

30 kW Pump Floor-Space Comparison

Same duty point: 50 l/s @ 40 m head

Horizontal Split Case HSW 1460 × 600 mm 0.876 m²	End Suction Long Coupled ELW 1364 × 455 mm 0.621 m²
End Suction Close Coupled ECW 1022 × 345 mm 0.353 m²	Vertical In-Line Split Coupled VLW 550 × 327 mm 0.180 m²

Scaled footprint overlay



0.180 m²
Vertical in-line footprint

↓ 79.5%
Lower Floor Space
than the Horizontal Split Case for the same duty point.

Note: Equipment footprints only. Installed-space requirements depend on pipework, access and maintenance clearances.

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