

# Pumps for whirlpool & spa

## Pump - HA 350

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### ■ The strongest whirlpool pump family.

Enjoy our HA 350 pump family. An excellent combination of compact design, low noise and brilliant performance.

#### 2 performance levels and 2 thread dimensions

We have extended our range to include 2 different performance levels. Also the HA 350 pumps are equipped with either 2 external BSP threads or 2 external Buttress threads to suit exactly your demand.

#### Variable speed

The standard models (excl. dry run models) are excellent in combination with variable speed controls (triac regulation). Try it with our System 1500 variable electronic control boxes.

#### Dry run protection

One of the optional, innovative features is "dry run" protection. This feature provides the optimal security for pneumatic pumps.

#### Flexible installation

Besides the special integrated anti-vibration feet we also offer pumps with preinstalled mounting plate to ensure easy and fast installation.

#### Approvals

The HA 350 pumps are TÜV approved according to European norms EN60335-1 and EN60335-2-41 with focus on EN60335-2-60 where relevant.

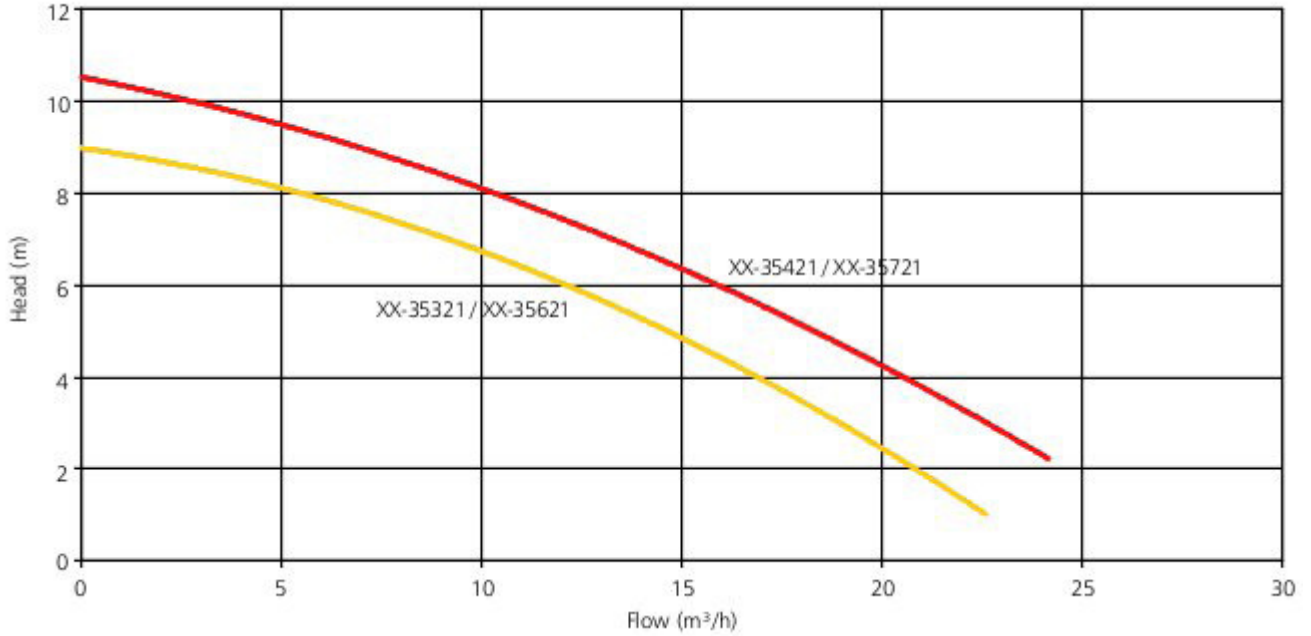
#### Material

Motor extruded aluminium, wet end PP

- BSP 2 1/4" thread
- Buttress 2 1/2" thread
- Compact design
- Dry run protection
- Excellent performance
- Ingress protection: IPx5
- Low power consumption
- Pneumatic pumps preset for electronic use
- Pneumatic switch & cable mounted at rear of terminal box
- Recommended for variable speed control
- Silent running
- Special anti-vibration feet and mounting plate
- Supplied with 3 m cable
- Thermal protection

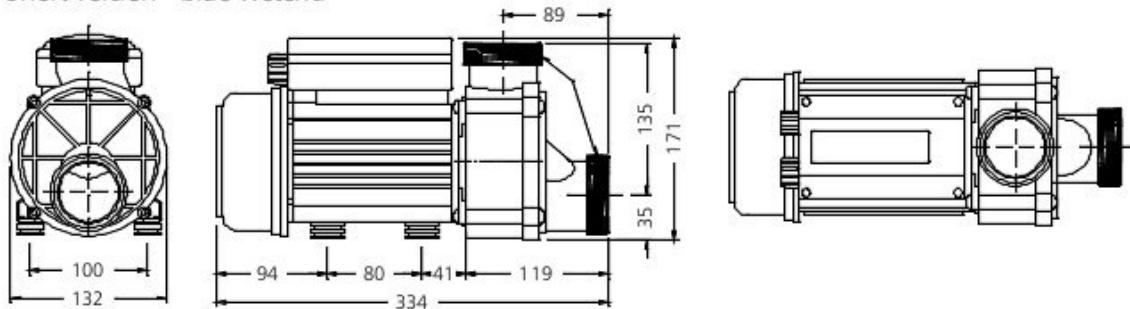
### Performance curve

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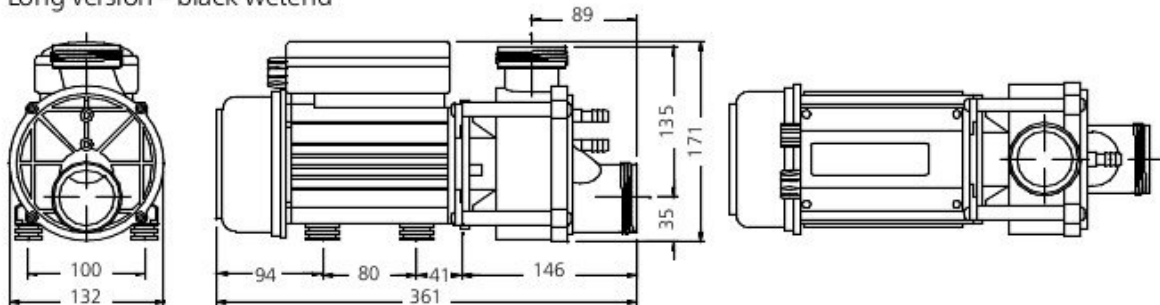


### Measurement drawing

Short version - blue wetend



Long version - black wetend



Dimensions in mm

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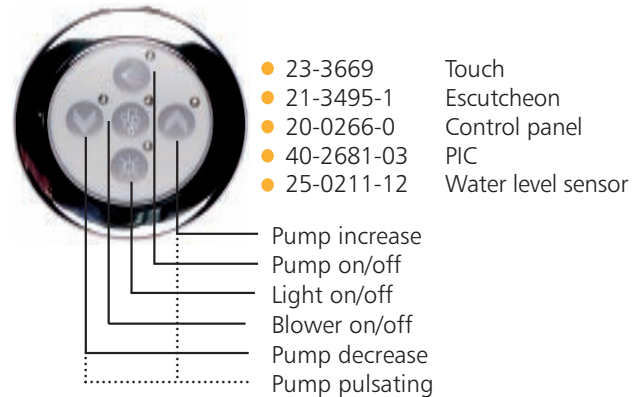
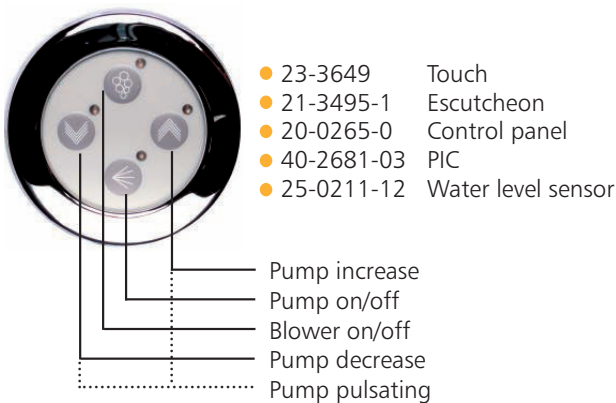
### Variable speed control

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#### Control the waterflow in your whirlpool with variable speed

ITT HydroAir's HA 350 pump is excellent in combination with variable speed controls. Our System 1500 electronic controls and HA 350 pump therefore makes the perfect combination when you wish to control the flow in your whirlpool.

Combine the pump with our System 1500 control boxes with 4 or 5 functions and enjoy the possibility of varying the massage effect. For optimal relaxation you can activate an automatic pulsation mode.



### Quick & flexible installation

There are different ways of installing the HA 350 pump



1. The easily accessible rubber feet allow quick installation of the pump, by screwing 4 pcs. of M6 bolts up into the nuts, that are integrated in the rubber feet.



2. With the premounted one point mounting plate, you simply screw one M10 bolt up into the nut, that is integrated in the plate, and the pump is in place.

### HA 350, 0.45kW, Buttress, black wet end

Article no.	P1 values	P2 values	V/Hz	Pneumatic	For var. -  speed	Self  - >drain	Single <- br />pac- ked	Bulk <br - >packed	Incl. <br - >mounti- ng plate
• 20-35321	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X	X		
• 35-35321	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X		X	
• 35-35321-P	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X		X	X

**Note:** Remember to order unions with Buttress thread (white nut) separately

### HA 350, 0.56kW, Buttress, black wet end

Article no.	P1 values	P2 values	V/Hz	Pneumatic	For var. -  sp- eed	Self  - >drain	Single <- br />pac- ked	Bulk <br - >packed	Incl. <br - >mounti- ng plate
• 20-35421	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X	X		
• 35-35421	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X		X	
• 35-35421-P	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X		X	X

**Note:** Remember to order unions with Buttress thread (white nut) separately.

### HA 350, 0.56kW, Buttress, black wet end, dry run

Article no.	P1 values	P2 values	V/Hz	Pneumatic	Dry run -  pr- tection	Self  - >drain	Single <- br />pac- ked	Bulk <br - >packed	Incl. <br - >mounti- ng plate
• 20-354211	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X	X		
• 35-354211	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X		X	
• 35-354211-P	0.68kW/<- br  - >0.91HP	0.56kW/<- br  - >0.75HP	230V/<br -  - >50Hz	X	X	X		X	X

**Note:** Remember to order unions with Buttress thread (white nut) separately. For the dry run model hose and quick-connection must also be ordered separately

### HA 350, 0.45kW, BSP, blue wet end

Article no.	P1 values	P2 values	V/Hz	Pneumatic	For var. -  sp- eed	Self  - >drain	Single <- br />pac- ked	Bulk <br - >packed	Incl. <br - >mounti- ng plate
• 20-35621	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X	X		
• 35-35621	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X		X	
• 35-35621-P	0.55kW/<- br  - >0.78HP	0.45kW/<- br  - >0.60HP	230V/<br -  - >50-60Hz	X	X	X		X	X

**Note:** Remember to order unions with BSP thread (black nut) separately

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## Pump - HA 350



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### HA 350, 0.56kW, BSP, blue wet end

Article no.	P1 values	P2 values	V/Hz	Pneumatic	For var. - speed	Self drain	Single packed	Bulk packed	Incl. mounting plate
• 20-35721	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X	X		
• 35-35721	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X		X	
• 35-35721-P	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X		X	X

**Note:** Remember to order unions with BSP thread (black nut) separately.

### HA 350, 0.56kW, BSP, blue wet end, dry run

Article no.	P1 values	P2 values	V/Hz	Pneumatic	Dry run - protection	Self drain	Single packed	Bulk packed	Incl. mounting plate
• 20-357211	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X	X		
• 35-357211	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X		X	
• 35-357211-P	0.68kW/ >0.91HP	0.56kW/ >0.75HP	230V/ 50Hz	X	X	X		X	X

**Note:** Remember to order unions with BSP thread (black nut) separately. For the dry run model hose and quick-connection must also be ordered separately