

# JET JETCOM JETINOX



## EFFORTLESS WATER LIFTING

Single-stage centrifugal pumps with Venturi system to allow self-priming up to 8 metres. The Jet series has excellent suction capacity even when there are air bubbles. Particularly suitable for water supply in domestic installations, small-scale agriculture, gardening and wherever self-priming operation is necessary.

### 3 DIFFERENT BUILDS

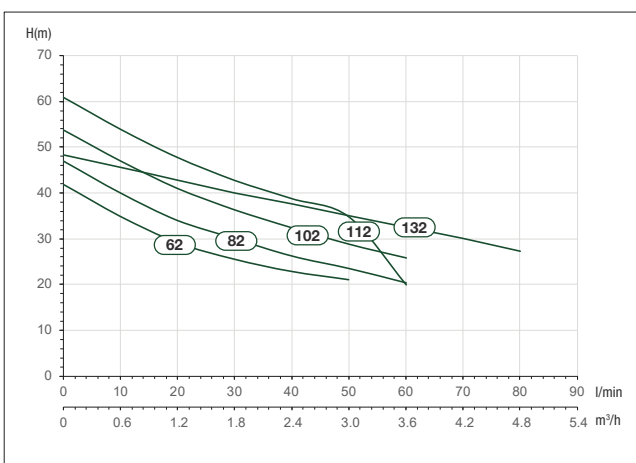


JET  
CAST IRON PUMP BODY

JETCOM  
TECHNOPOLYMER PUMP BODY

JETINOX  
STAINLESS STEEL PUMP BODY

### PERFORMANCE



- Flow rates from 0.4 to 10.5 m³/h with maximum pressure head of 62 m.
- The water temperature range must be between 0°C and +40°C.
- The pumped liquid must be clean, free of suspended solids or abrasive substances and chemically neutral.
- Adjustable cut-in (with Control-D equipped).
- Auto-reset (with Control-D equipped).
- Self-priming up to 8 metres.



### APPLICATIONS



RAIN WATER



WATER BOOSTING

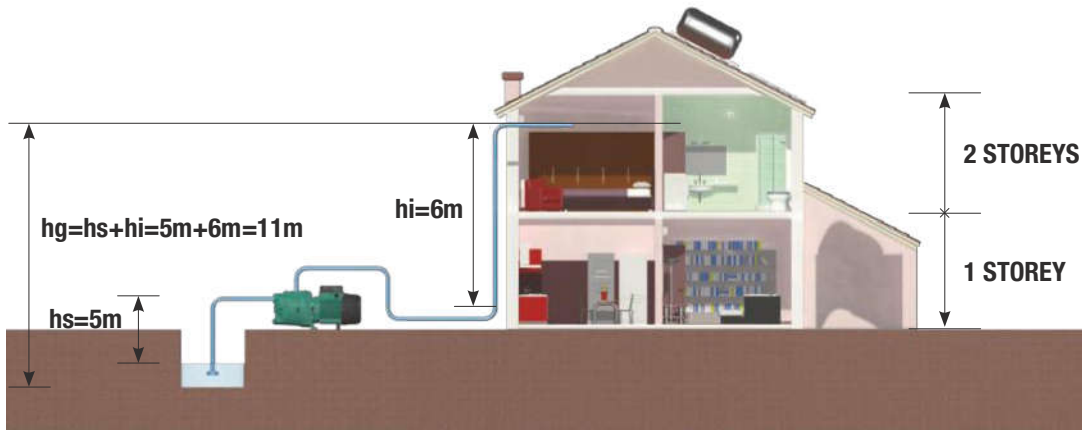


GARDENING & IRRIGATION

- Water supply for single family homes.
- Watering of small vegetable plots and gardens.
- Washing tunnels.
- For other applications consult DAB Technical Department.

## EXAMPLE

Assume we want to supply water from a nearby well to a detached home composed of a ground floor and a first floor. The installer has informed us that the house has 1 KITCHEN and 2 BATHROOMS. The water level in the well with respect to the pump suction port is located at  $h_s = 5\text{ m}$ .

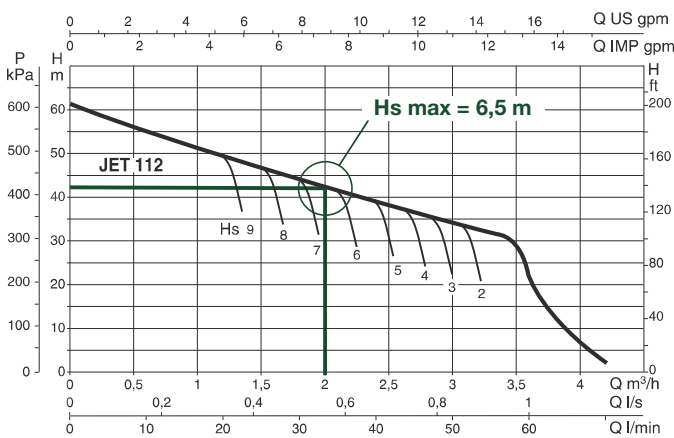


Unless otherwise specified,  $h_p$  (system pressure drop) = 20% of  $h_g$ .  
Height of each storey = 3m.

	KITCHEN + BATHROOM	KITCHEN + BATHROOM + WC	KITCHEN + 2 BATHROOMS	KITCHEN + 2 BATHROOMS + 100 m <sup>2</sup> GARDEN
1 STOREY	JET 82 / $h_{smax} = 7\text{m}$	JET 102 / $h_{smax} = 7\text{m}$	JET 102 / $h_{smax} = 7\text{m}$	JET 132 / $h_{smax} = 7\text{m}$
2 STOREYS	JET 102 / $h_{smax} = 7\text{m}$	JET 102 / $h_{smax} = 6.5\text{m}$	<b>JET 112 / <math>h_{smax} = 6.5\text{m}</math></b>	JET 132 / $h_{smax} = 7\text{m}$
3 STOREYS	JET 132 / $h_{smax} = 7\text{m}$	JET 132 / $h_{smax} = 7\text{m}$	JET 151 / $h_{smax} = 7\text{m}$	JET 151 / $h_{smax} = 5.5\text{m}$

- \* Max  $h_s$ : this is the maximum suction height for correct operation of the installed pump.
- \* The data given in the table and in the graph curve are valid for JET, JETINOX and JETCOM pumps.
- \* For the other cases not addressed in the table, consult DAB Technical Department.
- \* The pumps can be single-phase or three-phase (see DAB documentation).

## THEORETICAL SELECTION



### Available data:

1. No. of storeys = 2
2. No. of bathrooms = 2
3.  $h_i = 3\text{ m} \times 2\text{ storeys} = 6\text{ m}$
4.  $h_s = 5\text{ m}$
5.  $h_g = 5\text{ m} + 6\text{ m} = 11\text{ m}$

### Flow rate and pressure head:

$$h_t = 11 + 2.2\text{ m} + 20\text{ m} = 33.2\text{ m}$$

$$Q = 2\text{ m}^3/\text{h}$$

$h_s$  max (max draft) = 6.5m.

This means that this pump will work correctly, always and when the level difference between the end of the suction pipe and the pump suction port is less than or equal to 6.5 m. In this example  $h_s = 5\text{ m}$ , i.e. less than 6.5 m, hence the selected pump will work well.

