

## GRUNDFOS EXPRESS GUIDE



### Getting Started

1. Go to: [grundfosexpress.com](http://grundfosexpress.com)
2. Register
3. Select pumps

### Key Features

Welcome to the new and improved Grundfos pump selection software. User can expect an array of benefits developed by Grundfos to make selecting and scheduling pumps easier than ever before. The top features of the Grundfos Express include:

- **Simplified or advanced input conditions**
- **Complete offering of all Grundfos pumps as potential choices**
- **Prominent thumbnail curves for easier selection**
- **Ability to manage projects and pumps**
- **Quick access to submittal and specification documents**
- **Create and export pump schedules**

## Primary Pump Choices

These primary choices are selected for their efficiency, availability, and key end user and installer benefits in today's HVAC applications.



### MAGNA3

In-line variable speed circulator with integrated control featuring Auto Adapt (BMS compatible)

Flow: 15 - 346 GPM

Pressure: < 58 Ft. Hd.



### CRE-DP

Vertical multi-stage proportional differential pressure pump with integrated variable speed drive and control (BMS compatible)

Flow: 50 - 600 GPM

Pressure: < 250 Ft. Hd.



### VLSE/VLSC

Vertical in-line split-coupled pump with variable speed drive and integrated controls (BMS compatible)

Flow: 100 - 2000 GPM

Pressure: < 420 Ft. Hd.

## Secondary Pump Choices

These secondary choices are available for selection with class-leading feature sets and performance. Availability is high, but not stocked locally in New England.

### Other E-Solutions Pumps:

**LCSE** - split coupled end suction pump with integrated motor, drive, and control.

**LFE** - frame mounted end suction pump with integrated motor, drive, and control.

**CRE** - vertical multistage centrifugal pump with variable speed drive.

### Standard Offerings:

**LCS** - split coupled, base mounted centrifugal pump.

**LF** - frame mounted centrifugal pump.

**VL** - closed-coupled, in-line pump.

**VLS** - split-coupled, in-line pump.

**KP** - single-stage, between bearings, split case pump.

**CR** - vertical multistage centrifugal pump.

# CONDITIONS OF SERVICE

1. Input standard conditions of service
2. Narrow options by choosing *Application* and *Pump Type*
3. Select pumps you wish to see in the results
4. Hit *Search*

The screenshot shows a web interface for searching pumps. At the top right, there is a 'Search >' button (callout 4). Below it, the main search area is titled 'Search for a Pump'. On the left, under 'Inputs:', there are several dropdown menus: 'Flow' (600 USgpm), 'Head' (50 ft), 'Standard / Configurable' (All), 'Search criteria' (All speeds), 'Motor sizing specification' (Max power (non-overloading)), and 'Quantity of pumps operating in parallel' (1). On the right, under 'Product Lines:', there are dropdowns for 'Application' (Any) and 'Pump Type' (Any), along with buttons for 'Select all', 'Competitive Cross-Reference', and 'List Models'. The search results show two pump models: 'PACO VL5' and 'VLSE - Vertical In-Line, Split-coupled, Integrated VFD'. The VLSE model is selected with a checkmark (callout 3). A red dashed box highlights the input and product line sections (callout 2), and a red box highlights the 'Quantity of pumps operating in parallel' dropdown (callout 1).








# PUMP SELECTION

5. Use *Motor Power Optimized* as sorting criteria
6. Placing cursor over the pump curves will produce a larger view
7. Units operating outside of limits will be tagged
8. Best selection will likely appear in top 3-4 pump choices

Results Thumbnail Curves Comparison

Inputs: Flow: 250.0 USgpm, Head: 75.00 ft

Optimized by:  
Motor power optimized

Model	Stages	Speed criteria	Speed, rated (rpm)	Efficiency (%)	Rated power (based on duty point) (hp)	NPSHr (ft)	Nameplate motor rating (hp)	% BEP (%)
30957-4P-7.5HP VLSE 	1	Set Speed	1764	75.75	6.25	7.58	7.50	91.56
30957-4P-10HP VLSE 	1	Set Speed	1641	76.20	6.21	7.66	10.00	92.74
40957-4P-10HP VLSE 	1	Set Speed	1755	69.53	6.81	5.63	10.00	59.00
30123-4P-10HP VLSE 	1	Set Speed	1698	63.56	7.45	11.87	10.00	92.15
25709-2P-10HP VLSE 	1	Set Speed	3317	61.71	7.67	12.00	10.00	127.75
 25121-4P-10HP VLSE 	1	Set Speed	1707	52.70	8.98	16.40	10.00	124.17

Annotations: 5 (points to 'Motor power optimized'), 6 (points to pump curve icon), 7 (points to warning icon), 8 (points to '127.75' in % BEP column).

# DOCUMENTS

9. Update *Header Information* with relevant pump data
10. Curve setting may be modified to user preferences
11. Verify proper voltage for application
12. Navigate to *Documents* tab to download submittal sheets

The screenshot displays a software interface for pump performance analysis. At the top, the pump model is identified as 30957-4P-10HP VLSE, with operating parameters: 1641 rpm, 250.0 USgpm, 75.00 ft, 76.20%, and 6.21 hp. Navigation buttons for 'Schedule' and 'Header Information' are visible, with 'Header Information' highlighted by a red dashed box and labeled '9'. Below this, a tabbed interface shows 'Curve', 'Overview', 'Performance', and 'Documents', with 'Documents' highlighted by a red dashed box and labeled '12'. The main area contains two graphs: a Head - ft vs Flow - USgpm graph showing multiple performance curves for different speeds (1771 rpm, 1641 rpm, 450 rpm) and a corresponding NPSHr - ft vs Flow - USgpm graph. A red dashed box labeled '10' encompasses the 'Curve Settings' panel on the right, which includes dropdown menus for 'Head' (Rated, min & max curve.), 'Efficiency' (ISO lines), 'Power' (ISO lines), and 'NPSHr' (Rated curve only), along with a checkbox for 'Display system curve?'. At the bottom, the 'Inputs' section shows dropdown menus for 'Case Material' (Cast Iron), 'Motor Enclosure' (TEFC), and 'Motor Voltage' (Three Phase, 230V), with the 'Motor Voltage' dropdown highlighted by a red dashed box and labeled '11'.

# Thank you

We hope the new features of the Grundfos Express software will aid in making fast and easy pump selections. Continued functionality enhancements are anticipated over the next 12 months. If you have suggestions to enhance your experience, please contact your Representative.

Additional features not discussed in this guide include:

- Creating and managing projects
- Saving pump selections to projects
- Advanced inputs (i.e. suction pressure limits, fluid properties, etc.)

Personalized training of advanced user features are available upon request.

## Contact Us

Give us a call for more information about our services and products

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