WATER PROCESS
SOLUTIONS

ENCORE® 700 DRAWINGS
MANUAL
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**ENCORE® 700 PUMP CURVES**

<table>
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<tr>
<th>Size</th>
<th>Description</th>
<th>DWG No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-3/8&quot;</td>
<td></td>
<td>E7A3</td>
</tr>
<tr>
<td>3&quot;</td>
<td></td>
<td>E7C3</td>
</tr>
<tr>
<td>4&quot;</td>
<td></td>
<td>E7D3</td>
</tr>
<tr>
<td>5&quot;</td>
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<td>E7E3</td>
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**ENCORE® 700 DIMENSIONAL DRAWINGS**

**MANUAL**

<table>
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<tr>
<td>4&quot;</td>
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<td>WPS-E7D</td>
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**ESP**

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<td>5&quot;</td>
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<td>WPS-E7E-ESP</td>
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**ESP INSTALLATION WIRING DIAGRAMS**

<table>
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<tr>
<th>Description</th>
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<tr>
<td>INSTALLATION WIRING</td>
<td>40.300.131.010</td>
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<tr>
<td>INSTALLATION WIRING - SFC-SC CONTROLLER</td>
<td>40.300.131.020</td>
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</tbody>
</table>
WPS Ltd. Encore 700 Diaphragm Metering Pump 1 3/8” (35 mm)
Head 50 Hz Pump Curve

NOTE: All figures relate to 12 BAR pressure

PUMP CONFIGURATION CODE: E7A3

<table>
<thead>
<tr>
<th>SPM (Strokes Per Minute)</th>
<th>Capacity LPH (Litres per Hour) at 100% Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>3.9</td>
</tr>
<tr>
<td>60</td>
<td>7.9</td>
</tr>
<tr>
<td>120</td>
<td>15.8</td>
</tr>
<tr>
<td>144</td>
<td>18.9</td>
</tr>
</tbody>
</table>

PUMP CURVE NOTES:
1. PUMP CONFIGURED WITH PVC HEAD, VALVES AND PTFE VALVE BALLS.
2. DATA APPLIES TO WATER AT 16°C (61°F) AND 3 FT SUCTION LIFT CONDITIONS
3. PUMP CURVES ARE NORMALISED
4. THIS IS A TYPICAL REPRESENTATION OF PUMP CAPACITIES, HOWEVER ACTUAL PERFORMANCE MAY VARY BASED ON VARIOUS FACTORS SUCH AS INSTALLATION CONDITIONS, LIQUID PUMPED, SUCTION HEAD, DISCHARGE PRESSURE, VALVE TYPE AND CONFIGURATIONS, PIPE LENGTHS/SCHEDULE AND OTHER LOCAL INSTALLATION CONDITIONS. IT IS RECOMMENDED THAT THE USER DOES PUMP CALIBRATION ONSITE DURING START UP. ALWAYS REFER TO CATALOGUE CAPACITIES PRIOR TO SIZING AND SELECTING APPROPRIATE PUMP.
**WPS Ltd. Encore 700 Diaphragm Metering Pump 3” (75 mm) Head 50 Hz Pump Curve**

**NOTE:** All Figures relate to 10 BAR pressure

**PUMP CONFIGURATION CODE:** E7C3

![Pump Curve Diagram]

**PUMP CURVE NOTES:**
9. PUMP CONFIGURED WITH PVC HEAD, VALVES AND PTFE VALVE BALLS.
10. DATA APPLIES TO WATER AT 16°C (61°F) AND 3 FT SUCTION LIFT CONDITIONS
11. PUMP CURVES ARE NORMALISED
12. THIS IS A TYPICAL REPRESENTATION OF PUMP CAPACITIES, HOWEVER ACTUAL PERFORMANCE MAY VARY BASED ON VARIOUS FACTORS SUCH AS INSTALLATION CONDITIONS, LIQUID PUMPED, SUCTION HEAD, DISCHARGE PRESSURE, VALVE TYPE AND CONFIGURATIONS, PIPE LENGTHS/SCHEDULE AND OTHER LOCAL INSTALLATION CONDITIONS. IT IS RECOMMENDED THAT THE USER DOES PUMP CALIBRATION ONSITE DURING START UP. ALWAYS REFER TO CATALOGUE CAPACITIES PRIOR TO SIZING AND SELECTING APPROPRIATE PUMP.

<table>
<thead>
<tr>
<th>SPM (Strokes Per Minute)</th>
<th>Capacity LPH (Litres per Hour) at 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>39.5</td>
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<tr>
<td>60</td>
<td>79</td>
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<tr>
<td><strong>120</strong></td>
<td><strong>158</strong></td>
</tr>
<tr>
<td>144</td>
<td>190</td>
</tr>
</tbody>
</table>

**Key**
- Blue: 30 SPM
- Red: 60 SPM
- Green: 120 SPM [Configured Pump]
- Purple: 144 SPM
ENCORE 700 DIAPHRAGM PUMP
- SIMPLEX ESP SPACE REQUIREMENTS

DIMENSIONS: ALL IN MM.
SURFACE FINISH:
TOLERANCES: +/- 0.1 mm

PUMP HEAD SIZE
IN/OUT CONNECTIONS
WEIGHT [kg]

INLET/OUTLET CONNECTIONS
WEIGHT [kg]

MATERIAL:
REFER TO CONFIG BoM

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS:

DRAWN BY:
CHECK'D BY:
APPROVED BY:

NAME:
DATE:

SCALE: 1/6

SHEET 1 OF 1

A3

PUMP HEAD CONFIG.

Revised DATE:

DWG NO:

THIRD ANGLE PROJECTION

ENCORE 700 DIAPHRAGM PUMP
- SIMPLEX ESP SPACE REQUIREMENTS

PROJECT NO:

ISS NO:

01

WPS-E7C-ESP

E7C - [3 INCH]
[75MM]
ENCORE 700 DIAPHRAGM PUMP - SIMPLEX MANUAL SPACE REQUIREMENTS

PUMP HEAD CONFIG.

UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS: ALL IN MM.
- SURFACE FINISH:
- TOLERANCES: +/- 0.1 mm

MATERIAL:

REVISION DATE: 25/11/2016

DRAWN BY

CHK'D BY

APPV'D BY

DATE

NAME

PROJECT NO.

ISS NO.

WPS-E7C

E7C - [3 INCH] [75MM]

SCALE: 1 / 6

WEIGHT: 54 Kg

SHEET 1 OF 1

A3

PUMP HEAD SIZE

8 x 10mm HOLES

PUMP INLET/OUTLET CONNECTIONS

PLAIN SOCKET

BSP

1/2" NB

1/2" BSP

54

MIN. CLEARANCE (MM)

WEIGHT [kg]

11.735

DWG NO.

THIRD ANGLE PROJECTION

ENCORE 700 DIAPHRAGM PUMP
WPS Ltd. Encore 700 Diaphragm Metering Pump 4” (100 mm) Head
50 Hz Pump Curve

NOTE: All Figures relate to 9 BAR pressure

PUMP CONFIGURATION CODE: E7D3

<table>
<thead>
<tr>
<th>SPM (Strokes Per Minute)</th>
<th>Capacity LPH (Litres per Hour) at 100%</th>
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</thead>
<tbody>
<tr>
<td>30</td>
<td>60.7</td>
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<tr>
<td>60</td>
<td>121.4</td>
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<tr>
<td>120</td>
<td>245</td>
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<tr>
<td>144</td>
<td>291.4</td>
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</table>

PUMP CURVE NOTES:
13. PUMP CONFIGURED WITH PVC HEAD, VALVES AND PTFE VALVE BALLS.
14. DATA APPLIES TO WATER AT 16°C (61°F) AND 3 FT SUCTION LIFT CONDITIONS
15. PUMP CURVES ARE NORMALISED
16. THIS IS A TYPICAL REPRESENTATION OF PUMP CAPACITIES, HOWEVER ACTUAL PERFORMANCE MAY VARY BASED ON VARIOUS FACTORS SUCH AS INSTALLATION CONDITIONS, LIQUID PUMPED, SUCTION HEAD, DISCHARGE PRESSURE, VALVE TYPE AND CONFIGURATIONS, PIPE LENGTHS/SCHEDULE AND OTHER LOCAL INSTALLATION CONDITIONS. IT IS RECOMMENDED THAT THE USER DOES PUMP CALIBRATION ONSITE DURING START UP. ALWAYS REFER TO CATALOGUE CAPACITIES PRIOR TO SIZING AND SELECTING APPROPRIATE PUMP.
WPS Ltd. Encore 700 Diaphragm Metering Pump 5” (125 mm) Head
50 Hz Pump Curve

NOTE: All Figures relate to 5 BAR pressure

PUMP CONFIGURATION CODE: E7E3

<table>
<thead>
<tr>
<th>SPM (Strokes Per Minute)</th>
<th>Capacity LPH (Litres per Hour) at 100%</th>
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</thead>
<tbody>
<tr>
<td>30</td>
<td>141.9</td>
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<tr>
<td>60</td>
<td>283.9</td>
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<tr>
<td>120</td>
<td>567.8</td>
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<tr>
<td>144</td>
<td>681.3</td>
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</table>

PUMP CURVE NOTES:
17. PUMP CONFIGURED WITH PVC HEAD, VALVES AND PTFE VALVE BALLS.
18. DATA APPLIES TO WATER AT 16°C (61°F) AND 3 FT SUCTION LIFT CONDITIONS
19. PUMP CURVES ARE NORMALISED
20. THIS IS A TYPICAL REPRESENTATION OF PUMP CAPACITIES, HOWEVER ACTUAL PERFORMANCE MAY VARY BASED ON VARIOUS FACTORS SUCH AS INSTALLATION CONDITIONS, LIQUID PUMPED, SUCTION HEAD, DISCHARGE PRESSURE, VALVE TYPE AND CONFIGURATIONS, PIPE LENGTHS/SCHEDULE AND OTHER LOCAL INSTALLATION CONDITIONS. IT IS RECOMMENDED THAT THE USER DOES PUMP CALIBRATION ONSITE DURING START UP. ALWAYS REFER TO CATALOGUE CAPACITIES PRIOR TO SIZING AND SELECTING APPROPRIATE PUMP.
ENCORE 700 DIAPHRAGM PUMP - SIMPLEX ESP SPACE REQUIREMENTS

DIMENSIONS: ALL IN MM.
SURFACE FINISH:
TOLERANCES: +/- 0.1 mm

WEIGHT [kg.]
58

UNLESS OTHERWISE SPECIFIED:
MATERIAL: REFER TO CONFIG. BoM

DRAWN BY
MATERIAL:
25/11/2016

CHECK'D BY
25/11/2016

APPROV'D BY
25/11/2016

PUMP HEAD CONFIG.

SCALE: 1/6
SHEET 1 OF 1

ENCORE 700 DIAPHRAGM PUMP
WPS-E7E-ESP

PROJECT NO.
ISS NO.
01

E7E - [5 INCH] [125MM]

PUMP HEAD SIZE
INLET/OUTLET CONNECTIONS
WEIGHT [kg.]

OUTLET
INLET

8 x 10mm HOLES

435
280

260
210

79
401

76
285

608
540

43
NOTE:

FIELD WIRING (NOT BY WPS Ltd.) MUST CONFORM TO ELECTRICAL CODES.

LOW LIMIT CONTACT

HIGH LIMIT CONTACT

MOTOR DISENGAGED CONTACT

GROUND

FEEDBACK +

FEEDBACK -

Controller TO

Controller FROM

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

NOTE: FIELD WIRING (NOT BY WPS Ltd.) MUST CONFORM TO ELECTRICAL CODES.
FIELD WIRING (NOT BY WPS LTd) MUST CONFORM TO ELECTRICAL CODES.

SEE SEPARATE INSTRUCTION BOOK FOR SFC-SC CONTROLLER OPERATION.