ULTRACHEM® SERIES CURVE BOOK

CATALOG ID #FT01-835D, Rev. 5 (7/24/14)
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MODEL: UC1516

3500 rpm, 60 Hz
Suction: 1 1/2"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

Flow (USgpm)

Head (ft)

NPSHR (ft)

6 3/8" 5 BHP
6"
3 BHP
5 1/2"
5"
4 1/2"
4"
36%
42%
46%
48%

MINIMUM CONTINUOUS FLOW

2 BHP
NPSHR

MINIMUM CONTINUOUS FLOW
MODEL: UC1516
1750 rpm, 60 Hz
Suction: 1 1/2"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

Flow (USgpm)

Head (ft)

NPSHR (ft)

1/3 BHP
6 3/8"

1/2 BHP

42%

1/4 BHP
5 1/2"

46%

5"

48%

4 1/2"

36%

4"

MINIMUM CONTINUOUS FLOW

NPSHR

0 10 20 30 40 50 60 70 80 90

0 5 10 15 20 25

0 10 20 30 40 50 60 70 80 90
MODEL: UC1516
2900 rpm, 50 Hz
Suction: 1 1/2"
Discharge: 1"
MODEL: UC1516
1450 rpm, 50 Hz
Suction: 1 1/2"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

Flow (m³/hr)

Head (m)

NPSHR (m)

0 2 4 6 8 10

0 5 10 15

.37 Kw
(1/2 BHP)

.25 Kw
(1/3 BHP)

.18 Kw
(1/4 BHP)

MINIMUM CONTINUOUS FLOW

NPSHR

48%
46%
42%
36%
MODEL: UC1518
3500 rpm, 60 Hz
Suction: 1.5"
Discharge: 1"

NPSHr (ft) vs. Flow (USgpm) Performance Curve

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE
MODEL: UC1518
1750 rpm, 60 Hz
Suction: 1.5"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

MINIMUM CONTINUOUS FLOW

NPSHr

Flow (USgpm)

Head (ft)
MODEL: UC1518
2900 rpm, 50 Hz
Suction: 1.5"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

MODEL: UC1518
2900 rpm, 50 Hz
Suction: 1.5"
Discharge: 1"

MINIMUM CONTINUOUS FLOW

Flow (m³/hr)

Head (m)

NPSHr (m)
MODEL: UC1518
1450 rpm, 50 Hz
Suction: 1.5"
Discharge: 1"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

MINIMUM CONTINUOUS FLOW

NPSHr
MODEL: UC326
3500 rpm, 60 Hz
Suction: 3"
Discharge: 2"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

4009 REV 0
12/08/00
MODEL: UC326
1750 rpm, 60 Hz
Suction: 3"
Discharge: 2"

Flow (USgpm) vs. Head (ft) and NPSHR (ft) for different impeller sizes and BHP ratings:

- 6 3/8"
- 6"
- 5 1/2"
- 5"
- 4 1/2"
- 3/4 BHP
- 1 BHP
- 1 1/2 BHP
- 2 BHP

Flow rates range from 0 to 225 USgpm, and heads range from 0 to 45 ft. NPSHR values are noted for each impeller size and flow rate.
MODEL: UC326
2900 rpm, 50 Hz
Suction: 3"
Discharge: 2"

Flow (m³/hr) vs Head (m) and NPSHR (m) graph for the UC326 model.

- 6 3/8" minimum continuous flow
- 6" minimum continuous flow
- 5 1/2" minimum continuous flow
- 5" minimum continuous flow
- 4 1/2" minimum continuous flow

Power ratings:
- 2.2 Kw (3 BHP)
- 3.7 Kw (5 BHP)
- 5.5 Kw (7 1/2 BHP)
MODEL: UC326
1450 rpm, 50 Hz
Suction: 3"
Discharge: 2"

UC SERIES
STANDARD HORIZONTAL
PERFORMANCE CURVE

Flow (m³/hr)

Head (m)

NPSHR (m)

MINIMUM CONTINUOUS FLOW
MODEL: UC438
3500 rpm, 60 Hz
Suction: 4"
Discharge: 3"

Flow (m³/hr)

NPSHR (ft)

Head (ft)

NPSHR (m)

Head (m)

Flow (US gpm)

Min. Flow
20 US gpm
(4.5 m³/hr)
MODEL: UC438
1750 rpm, 60 Hz
Suction: 4"
Discharge: 3"

Flow (m³/hr)

Head (ft)

Min. Flow
10 US gpm
(2.3 m³/hr)

NPSHR (ft)

NPSHR

Flow (USgpm)

Head (m)

Min. Flow
10 US gpm
(2.3 m³/hr)

NPSHR (m)

UC438604P
4015 Rev 1
9-16-14
MODEL: UC438
2900 rpm, 50 Hz
Suction: 4"
Discharge: 3"

Flow (US gpm)

Head (m)

NPSHr (m)

Flow (m³/hr)

Head (ft)

NPSHr (ft)

Min. Flow
3.8 m³/hr
(16.5 US gpm)

NPSHR
MODEL: UC438
1450 rpm, 50 Hz
Suction: 4"
Discharge: 3"

Flow (US gpm)

Head (m)

Min. Flow
1.9 m³/hr
(8.4 US gpm)

NPSHR

Flow (m³/hr)

NPSHr (m)

0 10 20 30 40 50 60 70 80 90
0 10 20 30 40 50 60 70 80 90

NPSHr (ft)

Head (ft)

0 10 20 30 40 50 60 70 80 90
0 10 20 30 40 50 60 70 80 90

UC438504P
4016 Rev 1
9-16-14
MODEL: UC3158
3500 rpm, 60 Hz
Suction: 3”
Discharge: 1.5”

Curve Legend
#1- 8.25” (209.6 mm)
#2- 7.50” (190.5 mm)
#3- 7.00” (177.8 mm)
#4- 6.50” (165.1 mm)
#5- 6.00” (152.4 mm)

Min. Flow
20 US gpm
(4.5 m³/hr)
MODEL: UC3158
1750 rpm, 60 Hz
Suction: 3"
Discharge: 1.5"

Flow (m³/hr)

Head (ft)

NPSHr (ft)

Curve Legend
#1- 8.25" (209.6 mm)
#2- 7.50" (190.5 mm)
#3- 7.00" (177.8 mm)
#4- 6.50" (165.1 mm)
#5- 6.00" (152.4 mm)

Min. Flow
10 US gpm
(2.3 m³/hr)
MODEL: UC3158
2900 rpm, 50 Hz
Suction: 3"
Discharge: 1.5"

Curve Legend
#1- 8.25" (209.6 mm)
#2- 7.50" (190.5 mm)
#3- 7.00" (177.8 mm)
#4- 6.50" (165.1 mm)
#5- 6.00" (152.4 mm)

Min. Flow
3.8 m³/hr
(16.6 US gpm)
MODEL: UC3158
1450 rpm, 50 Hz
Suction: 3”
Discharge: 1.5”