

Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator with Rotating Flange

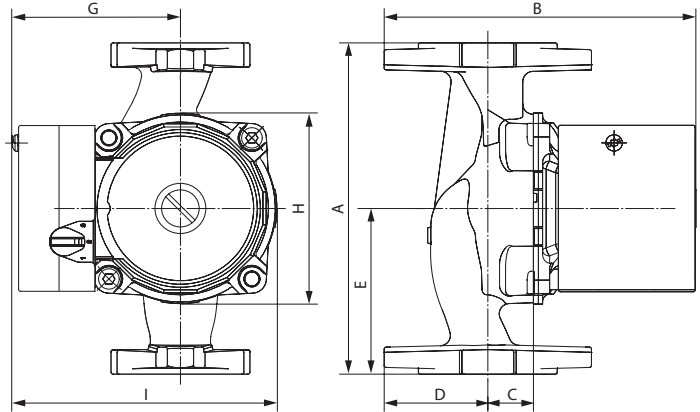
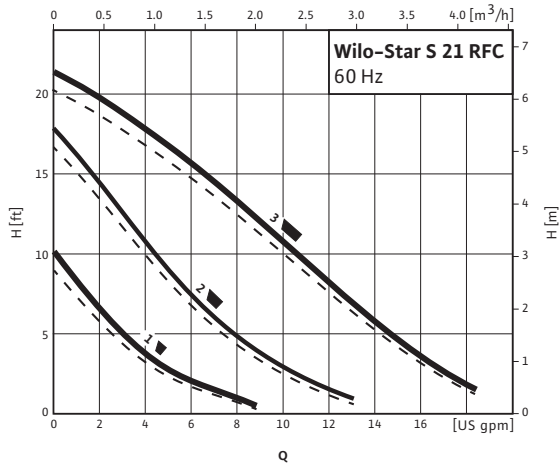


Star S 21 RFC – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Check Valve | Speed | Flow | Head | Phase | Voltage | Cycle |
|-------|---------------|-------------|-------|------|------|-------|---------|-------|
| | Star S 21 RFC | | | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Solar Systems
- Geothermal Systems

Materials of Construction

| | |
|--------------|----------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron with Installable Check Valve |
| Check Valve | Glass filled Noryl + EPDM rubber |

Technical Data

| | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

Dimensions – Inches (mm)

Weight – lbs (kg)

| A | B | C | D | E | G | H | I | |
|-------------------------------|-------------------------------|-------------------------------|------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-------|
| 6 ³ / ₈ | 6 ³ / ₈ | 7 ¹ / ₈ | 2 | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 6.5 |
| (162) | (154) | (22) | (50) | (81) | (81) | (93.5) | (128) | (3.0) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|------|-----------|---------|-----------|
| 1/20 | 1300-2700 | 56-110 | 0.52-0.92 |



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Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator

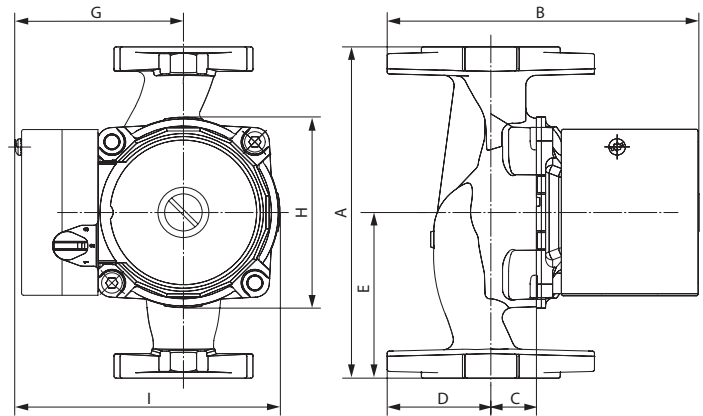
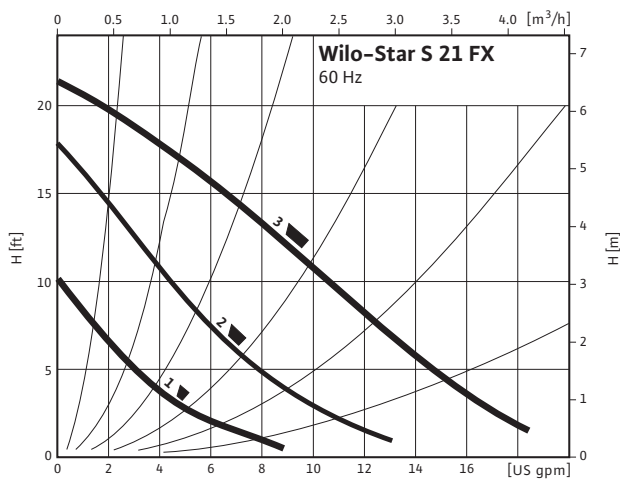


Star S 21 FX – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Speed | Flow | Head | Phase | Voltage | Cycle |
|-------|--------------|-------|------|------|-------|---------|-------|
| | Star S 21 FX | | | | 1 | 115 | 60Hz |



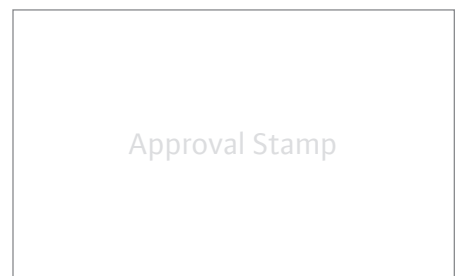
| Applications | |
|-------------------|----------------------------|
| • Heating Systems | • Air-Conditioning Systems |
| • Cooling Systems | • Water/Glycol up to 50% |
| • Solar Systems | • Geothermal Systems |

| Materials of Construction | |
|---------------------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

| Technical Data | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

| Dimensions & Weights | | | | | | | | |
|-------------------------------|-------------------------------|-------------------------------|------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-------------------|
| Dimensions – Inches (mm) | | | | | | | | Weight – lbs (kg) |
| A | B | C | D | E | G | H | I | |
| 6 ³ / ₈ | 6 ³ / ₈ | 7 ⁷ / ₈ | 2 | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 6.5 |
| (162) | (154) | (22) | (50) | (81) | (81) | (93.5) | (128) | (3.0) |

| Motor Data | | | |
|--------------------------------|-----------|---------|---------------------|
| hp | Speed RPM | Watts W | FLA |
| 1 ¹ / ₂₀ | 1300-2700 | 56-110 | 1~115V 0.52-0.92 |



Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator

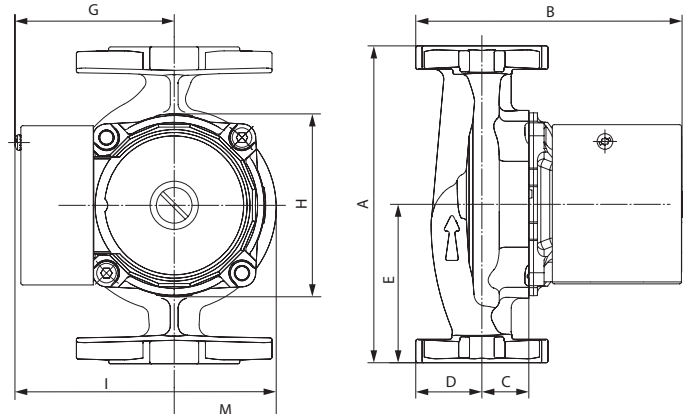
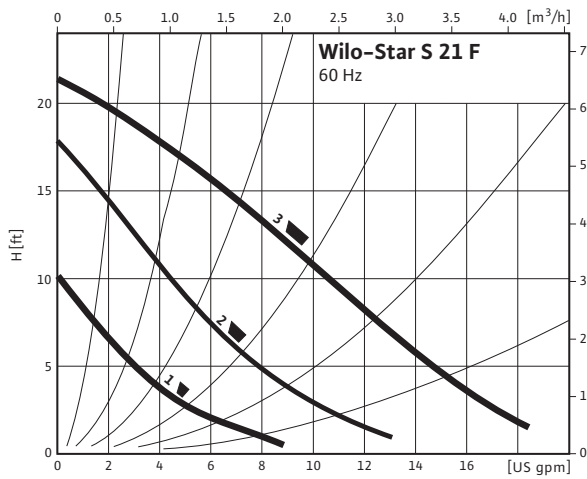


Star S 21 F – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Speed | Flow | Head | Phase | Voltage | Cycle |
|-------|-------------|-------|------|------|-------|---------|-------|
| | Star S 21 F | | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Solar Systems
- Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

Technical Data

| | |
|----------------------------------|------------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

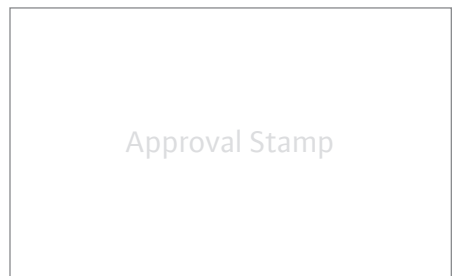
Dimensions - Inches (mm)

Weight - lbs (kg)

| A | B | C | D | E | G | H | I | M | |
|-------------------------------|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|-------|
| 6 ³ / ₈ | 6 ³ / ₈ | 7 ⁷ / ₈ | 1 ⁵ / ₁₆ | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 3 ¹⁵ / ₁₆ | 6.5 |
| (162) | (154) | (22) | (34) | (81) | (81) | (93.5) | (128) | (100) | (3.0) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|--------------------------------|--------------|------------|---------------------|
| 1 ¹ / ₂₀ | 1300-2700 | 56-110 | 1~115V 0.52-0.92 |



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Wilo Star – Cast Iron Wet Rotor Circulator

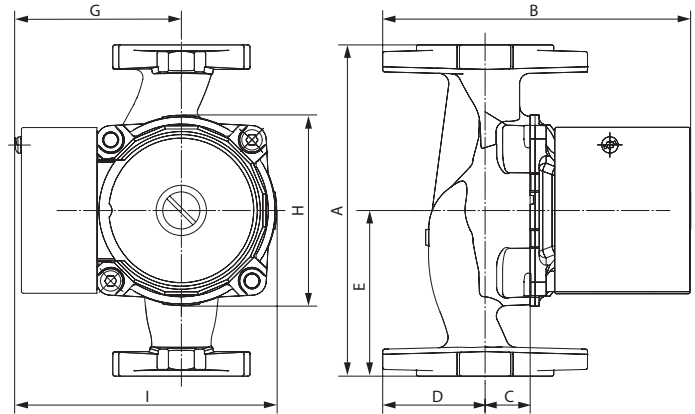
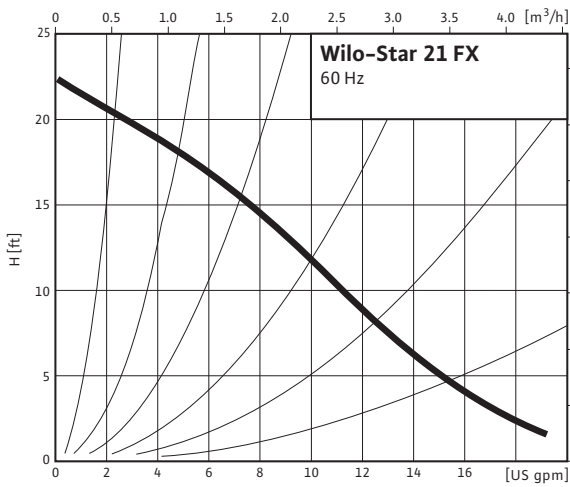


Star 21 FX – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Flow | Head | Phase | Voltage | Cycle |
|-------|------------|------|------|-------|---------|-------|
| | Star 21 FX | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Solar Systems
- Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

Technical Data

| | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

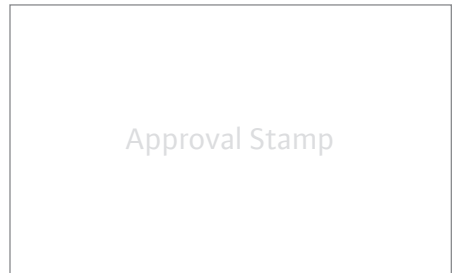
Dimensions – Inches (mm)

Weight – lbs (kg)

| A | B | C | D | E | G | H | I | |
|-------------------------------|---------------------------------|-------------------------------|------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-------|
| 6 ³ / ₈ | 5 ¹⁵ / ₁₆ | 7 ⁷ / ₈ | 2 | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 6.5 |
| (162) | (150) | (22) | (50) | (81) | (81) | (93.5) | (128) | (3.0) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|--------------------------------|-----------|---------|------|
| 1 ¹ / ₂₀ | 2700 | 110 | 0.92 |



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Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator

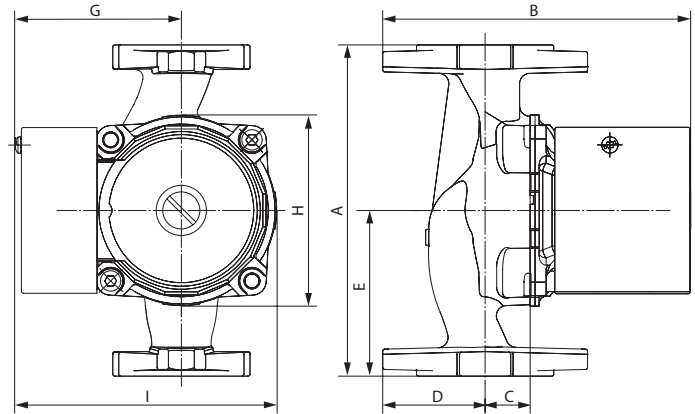
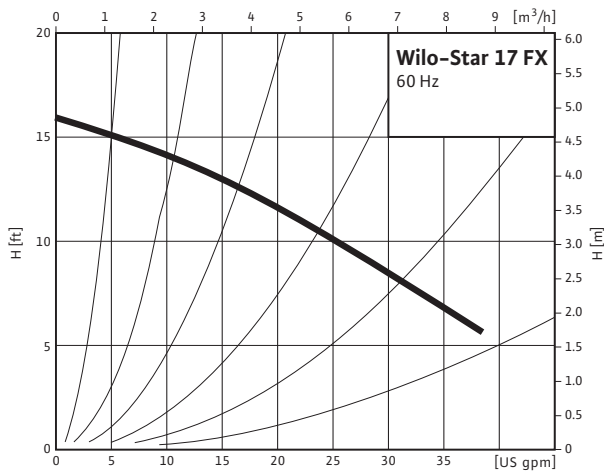


Star 17 FX – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Flow | Head | Phase | Voltage | Cycle |
|-------|------------|------|------|-------|---------|-------|
| | Star 17 FX | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Solar Systems
- Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

Technical Data

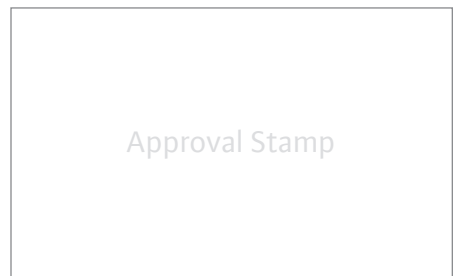
| | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

| Dimensions - Inches (mm) | | | | | | | | Weight - lbs (kg) |
|--------------------------|-------|------|--------------------------------|-------|-------------------------------|-------------------------------|-------------------------------|-------------------|
| A | B | C | D | E | G | H | I | |
| 8½ | 7 | 1¼ | 2 ³ / ₁₆ | 4¼ | 3 ² / ₉ | 3 ⁷ / ₉ | 5 ¹ / ₈ | 10.8 |
| (216) | (176) | (33) | (55) | (108) | (82) | (96) | (130) | (4.9) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|--------------------------------|-----------|---------|------|
| 1 ¹ / ₁₀ | 3000 | 166 | 1.45 |



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Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator

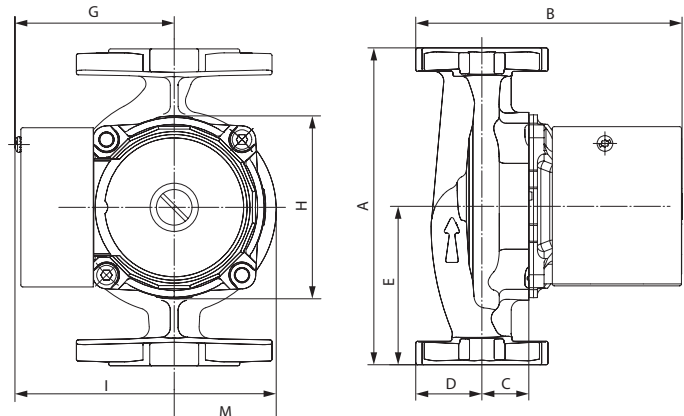
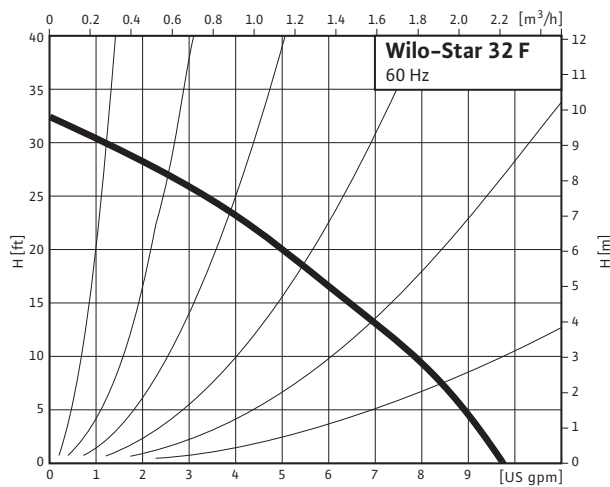


Star 32 F – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Flow | Head | Phase | Voltage | Cycle |
|-------|-----------|------|------|-------|---------|-------|
| | Star 32 F | | | 1 | 115 | 60Hz |



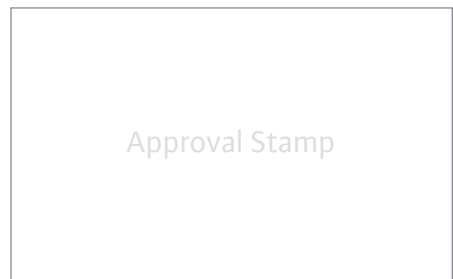
| Applications | |
|-------------------|----------------------------|
| • Heating Systems | • Air-Conditioning Systems |
| • Cooling Systems | • Water/Glycol up to 50% |
| • Solar Systems | • Geothermal Systems |

| Materials of Construction | |
|---------------------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

| Technical Data | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

| Dimensions & Weights | | | | | | | | |
|-------------------------------|-------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|
| Dimensions – Inches (mm) | | | | | | | | |
| A | B | C | D | E | G | H | I | M |
| 6 ³ / ₈ | 5 ³ / ₈ | 1 ⁵ / ₁₆ | 1 ⁵ / ₁₆ | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 2 ¹ / ₁₆ |
| (162) | (136) | (24) | (34) | (81) | (81) | (93.5) | (128) | (52) |
| Weight – lbs (kg) | | | | | | | | |
| 6.7 (3.1) | | | | | | | | |

| Motor Data | | | |
|------------|-------|-------|------|
| hp | Speed | Watts | FLA |
| | RPM | W | |
| 1/20 | 2700 | 101 | 0.92 |



Submittal Data Sheet

Wilo Star – Cast Iron Wet Rotor Circulator

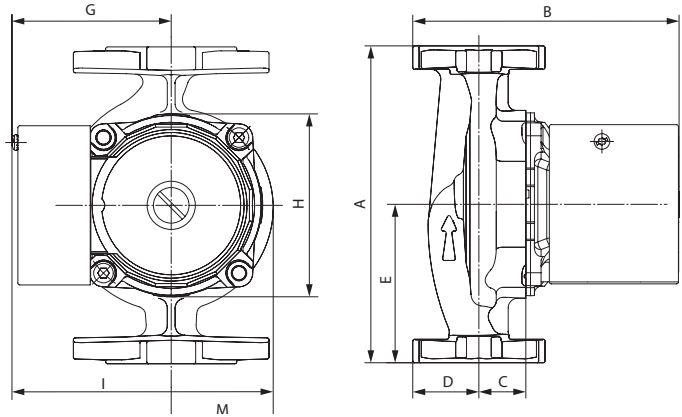


Star 30 F – Cast Iron



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Flow | Head | Phase | Voltage | Cycle |
|-------|-----------|------|------|-------|---------|-------|
| | Star 30 F | | | 1 | 115 | 60Hz |



- #### Applications
- Heating Systems
 - Air-Conditioning Systems
 - Cooling Systems
 - Water/Glycol up to 50%
 - Solar Systems
 - Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Cast Iron |
| Pump Housing | Cast Iron |

Technical Data

| | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

| Dimensions – Inches (mm) | | | | | | | | | Weight – lbs (kg) |
|--------------------------|-------|------|--------------------------------|------|------|------|--------------------------------|---------------------------------|-------------------|
| A | B | C | D | E | G | H | I | M | |
| 6½ | 6 | 1¼ | 1 ⁵ / ₁₆ | ¾ | ¾ | ¾ | 5 ³ / ₁₆ | 1 ¹⁵ / ₁₆ | 8.0 |
| (165) | (153) | (31) | (34) | (83) | (82) | (96) | (132) | (50) | (3.7) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|--------------------------------|-----------|---------|------|
| 1 ¹ / ₁₀ | 2700 | 173 | 1.50 |



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Submittal Data Sheet

Wilo Star – Bronze Wet Rotor Circulator

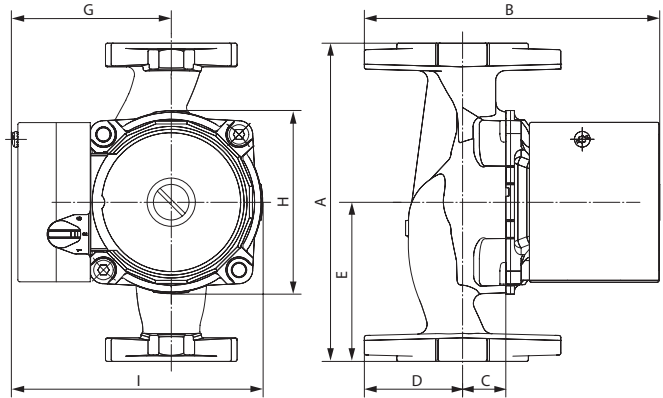
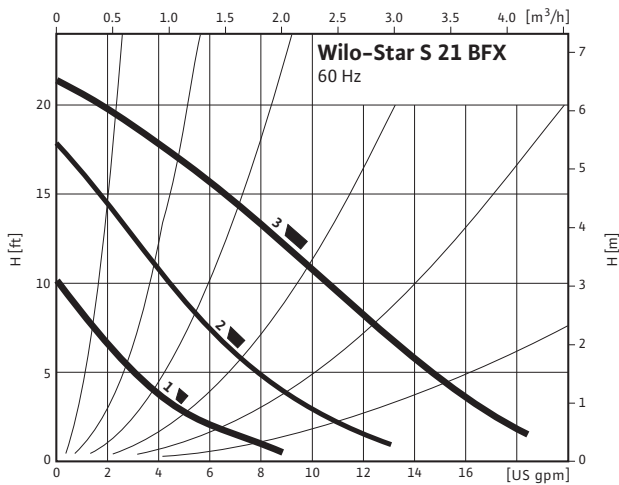


Star S 21 BFX – Bronze



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | Speed | Flow | Head | Phase | Voltage | Cycle |
|-------|---------------|-------|------|------|-------|---------|-------|
| | Star S 21 BFX | | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Open HVAC systems
- Solar/Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Bronze |
| Pump Housing | Bronze |

Technical Data

| | |
|----------------------------------|---------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

Dimensions - Inches (mm)

Weight - lbs (kg)

| A | B | C | D | E | G | H | I | |
|-------------------------------|-------------------------------|-------------------------------|------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|-------|
| 6 ³ / ₈ | 6 ³ / ₈ | 7 ⁷ / ₈ | 2 | 3 ³ / ₁₆ | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 7.1 |
| (162) | (154) | (22) | (50) | (81) | (81) | (93.5) | (128) | (3.3) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|--------------------------------|-----------|---------|---------------------|
| 1 ¹ / ₂₀ | 1300-2700 | 56-110 | 1~115V 0.52-0.92 |



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WILO Mexico

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Submittal Data Sheet

Wilo Star – Bronze Wet Rotor Circulator

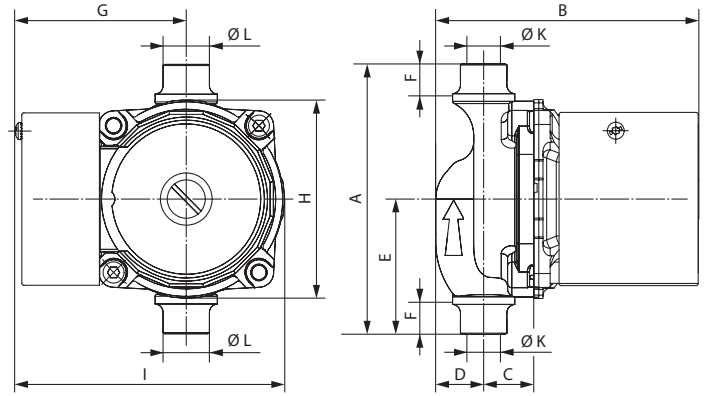
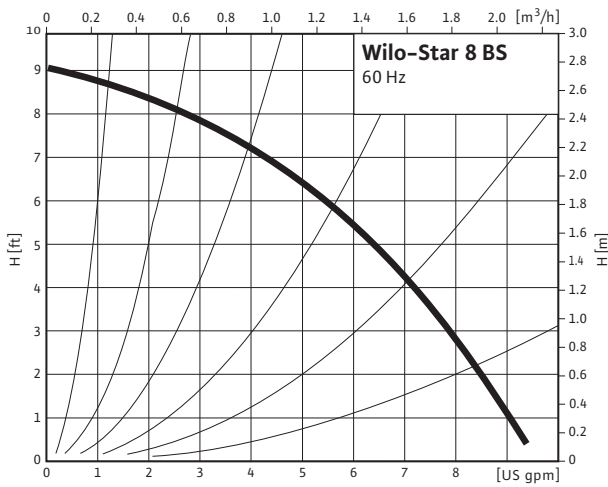


Star 8 BS7 – Bronze



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | SWT Connection | Flow | Head | Phase | Voltage | Cycle |
|-------|------------|----------------|------|------|-------|---------|-------|
| | Star 8 BS7 | | | | 1 | 115 | 60Hz |



Applications

- Heating Systems
- Air-Conditioning Systems
- Cooling Systems
- Water/Glycol up to 50%
- Open HVAC systems
- Solar/Geothermal Systems

Materials of Construction

| | |
|--------------|---------------------------------------|
| Impeller | Engineered Composite (40% GF) |
| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
| Bearing | Metal Impregnated Carbon |
| Volute | Bronze |
| Pump Housing | Bronze |

Technical Data

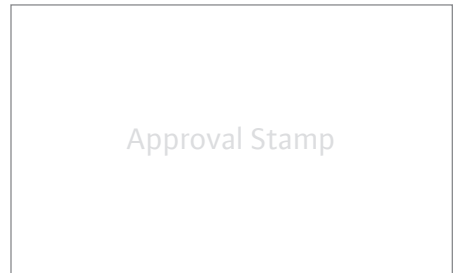
| | |
|----------------------------------|------------------------------------|
| Max. Temp. Range | -14°F to 230°F (-10°C to 110°C) |
| Ambient Temp. | 104°F (40°C) |
| Electrical Connections | 1-115 |
| Max. Working Pressure | 140 PSI (10 Bar) |
| Min. Inlet Pressure 122°F (50°C) | 0.7 PSI (0.05 Bar) |
| Min. Inlet Pressure (203°F) | 4.4 PSI (0.3 Bar) |
| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

Dimensions & Weights

| Dimensions - Inches (mm) | | | | | | | | | | Weight - lbs (kg) | |
|--------------------------|---------------------------------|--------------------------------|------|------|------|--------------------------------|---------------------------------|--------------------------------|------|-------------------------------|-------|
| A | B | C | D | E | F | G | H | I | ØK | ØL | |
| 5 | 4 ¹⁵ / ₁₆ | 1 ⁵ / ₁₆ | 7/8 | 2½ | 9/16 | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 7/8 | 1 ¹ / ₈ | 5.3 |
| (127) | (125) | (24) | (23) | (64) | (15) | (81) | (93.5) | (128) | (22) | (28) | (2.4) |

Motor Data

| hp | Speed RPM | Watts W | FLA |
|------|--------------|------------|------|
| 1/30 | 3000 | 64 | 0.58 |



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WILO Canada Inc.

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WILO Mexico

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Submittal Data Sheet

Wilo Star – Bronze Wet Rotor Circulator

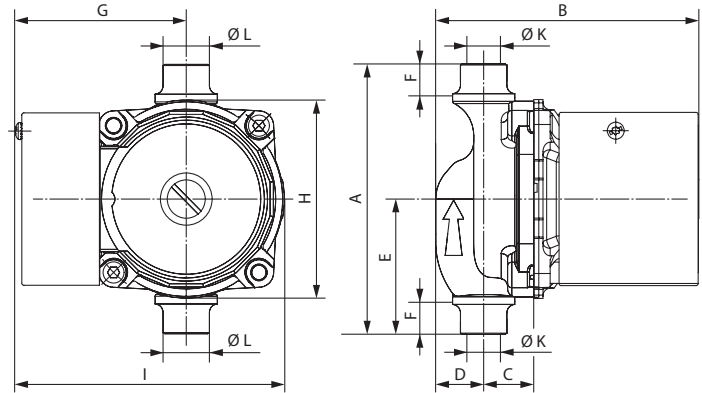
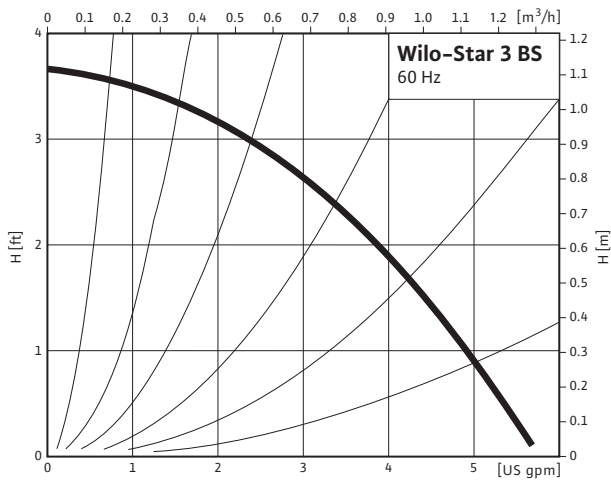


Star 3 BS7 – Bronze



| | |
|---------------|-------|
| Project: | |
| Engineer: | |
| Contractor: | |
| Submitted By: | Date: |
| Approved By: | Date: |

| Tag # | Model | SWT Connection | Flow | Head | Phase | Voltage | Cycle |
|-------|------------|----------------|------|------|-------|---------|-------|
| | Star 3 BS7 | | | | 1 | 115 | 60Hz |



| Applications | |
|---------------------|----------------------------|
| • Heating Systems | • Air-Conditioning Systems |
| • Cooling Systems | • Water/Glycol up to 50% |
| • Open HVAC systems | • Solar/Geothermal Systems |

| Materials of Construction | |
|---------------------------|---------------------------------------|
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| Shaft | Stainless Steel (X40 Cr13) AISI 420SS |
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| Pump Housing | Bronze |

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| Min. Inlet Pressure (230°F) | 14.5 PSI (1 Bar) |

| Dimensions & Weights | | | | | | | | | | | |
|--------------------------|---------------------------------|--------------------------------|------|------|------|--------------------------------|---------------------------------|--------------------------------|------|-------------------------------|-------|
| Dimensions - Inches (mm) | | | | | | | | | | Weight - lbs (kg) | |
| A | B | C | D | E | F | G | H | I | ØK | ØL | |
| 5 | 4 ¹⁵ / ₁₆ | 1 ⁵ / ₁₆ | 7/8 | 2½ | 9/16 | 3 ³ / ₁₆ | 3 ¹¹ / ₁₆ | 5 ¹ / ₁₆ | 7/8 | 1 ¹ / ₈ | 5.3 |
| (127) | (125) | (24) | (23) | (64) | (15) | (81) | (93.5) | (128) | (22) | (28) | (2.4) |

| Motor Data | | | |
|------------|------|-------|------|
| hp | RPM | Watts | FLA |
| 1/30 | 3400 | 50 | 0.49 |

