

**CORNELL PUMP COMPANY**

50 - 175 GPM

**1.5 WH**

75 - 200 Feet TDH

**STANDARD SPECIFICATION****Discharge** - 1.5 inch threaded discharge**Suction** - 2 inch threaded suction**Impeller** - Enclosed cast iron**Volute** - Right hand tangential discharge, four positions**Mechanical Seal or Traditional Packing** - Single type 1 carbon ceramic mechanical seal: Cycloseal® design, run-dry available**Footprint** - Matches Cornell's historical 1.5W**Materials of Construction**

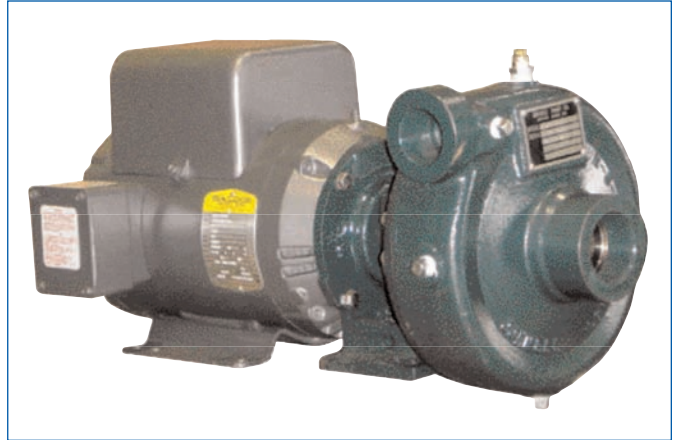
- Cast iron bronze fitted
- Other materials available

**PURCHASE OPTIONS**

- **Complete Pump**
  - Fully assembled at the factory
  - Ready to go to the field
- **Pump End Kit**
  - Finished components
    - PrePainted
  - Easy assembly
    - Common tools
    - Simple instructions
  - Obtain drives locally or through Cornell

**MOUNTING OPTIONS**

- **Close Coupled Electric**
  - Standard JP motor shaft
    - Standard Efficiency
    - Cornell's Energy Efficient Design
- **Frame Mount**
  - Cornell F5
- **Engine Bracket**
  - Cornell EM5 (SAE 5)
  - Cornell EM309 (SAE 5)

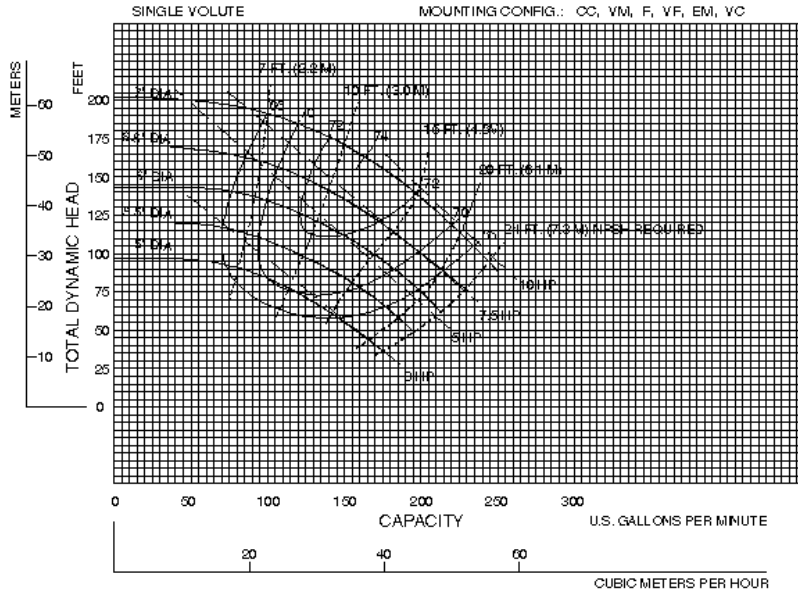
**FEATURES & BENEFITS**

- **Cornell's Tradition of Excellence:**
  - **Highest Quality Products**
  - **Experience**
    - Over 50 years in the centrifugal pump business
  - **Optimum Hydraulics**
    - In house engineering staff and test lab facilities
  - **Strong Local Dealer Support**
    - Our agricultural products are sold only through authorized dealerships
    - Dealerships provide full service to customers from sales to replacement parts
    - Dealers maintain and improve their knowledge at educational activities like Cornell's "Pump School"
- **Economically Priced:**
  - **Component Design**
    - Efficient manufacturing through increased volume of common parts
  - **Versatility**
    - The ability to mix and match components reducing local inventory of both parts and wholegoods with a wide variety of pumps and mounting configurations for the customer
- **Exceptional Design:**
  - **Efficiency**
    - Effectively converts energy into fluid flow and pressure
  - **Long Product Life**
    - Thick walled castings
    - Heavy duty shafts
    - 20,000 hour bearings
    - Replaceable wear rings and shaft sleeves
    - Reduced thrust load through design and balance lines where appropriate

# PERFORMANCE CURVES

**1.5 WH  
3600 RPM**

|       |               |          |             |                |         |           |           |
|-------|---------------|----------|-------------|----------------|---------|-----------|-----------|
| Speed | Impeller Dia. | Style    | Solids Dia. | N <sub>S</sub> | Suction | Discharge | No. vanes |
| 3525  | VARIOUS       | ENCLOSED | .28"        | 980            | 2.0"    | 1.5"      | 6         |



Performance shown for cool water, close-coupled electric motor with cast iron base. Motor and impeller materials may vary. Performance subject to change without notice.

**Note:**  
Curves also available in 1800 and various RPM

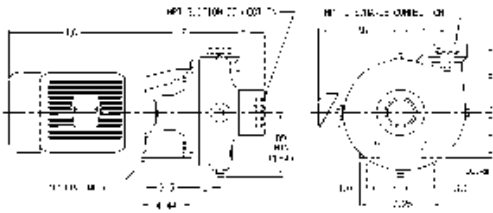


Figure 1

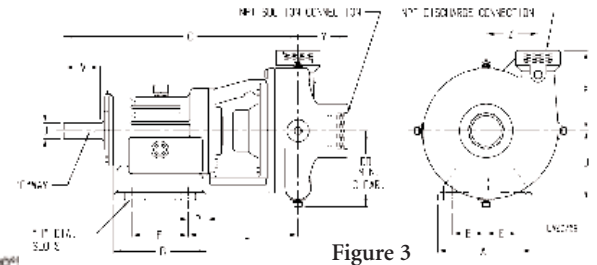


Figure 3

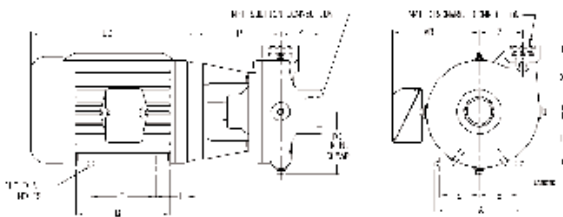


Figure 2

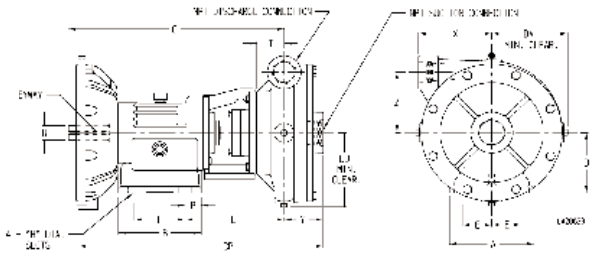
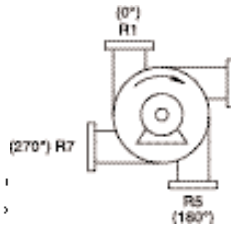


Figure 4

## PUMP DIMENSIONS

| MOUNT | AK  | Fig. | A   | B    | C     | CP    | D   | DA   | DD   | E    | F   | H    | L    | P    | T    | U    | V | X | Y    | Z    | LP   | KEYWAY    |
|-------|-----|------|-----|------|-------|-------|-----|------|------|------|-----|------|------|------|------|------|---|---|------|------|------|-----------|
| CC    | 4.5 | 1    | -   | -    | -     | -     | -   | -    | 6.25 | -    | -   | -    | 2.97 | -    | -    | -    | - | 5 | 3.53 | 4.25 | 7.06 | -         |
|       | 8.5 | 2    | -   | -    | -     | -     | -   | -    | 6.25 | -    | -   | -    | -    | -    | -    | -    | - | 5 | 3.53 | 4.25 | 7.88 | -         |
| F5    | -   | 3    | 7.5 | 7.36 | 22.03 | -     | 5.5 | -    | 6.25 | 2.62 | 4.5 | 0.56 | 8.66 | 1.44 | -    | 1.25 | 3 | 5 | 3.53 | 4.25 | -    | .25 X .12 |
| EM5   | -   | 4    | 7.5 | 7.36 | 18.5  | 21.64 | 5.5 | 6.25 | 6.25 | 2.62 | 4.5 | 0.56 | 8.66 | 1.44 | -    | 1.25 | - | 5 | 3.53 | 4.25 | -    | .25 X .12 |
| EM309 | -   | 4    | -   | -    | 18.12 | 20.27 | -   | -    | 6.25 | -    | -   | -    | -    | -    | 2.25 | 1.25 | - | 5 | 3.53 | 4.25 | -    | .25 X .12 |

## MOTOR DIMENSIONS

| MOTOR FRAME | AK DIM. | A     | B     | D    | E    | F   | H    | AB   | BA   | LC    |
|-------------|---------|-------|-------|------|------|-----|------|------|------|-------|
| 143-5       | 4.5     | 6.5   | 5.94  | 3.5  | 2.75 | 5   | 0.34 | 5.62 | 2.88 | 10    |
| 182-3       | 4.5     | 8.62  | 6.5   | 4.5  | 3.75 | 5.5 | 0.41 | 6.75 | 3.5  | 12.25 |
|             | 8.5     | 8.62  | 6.5   | 4.5  | 3.75 | 5.5 | 0.41 | 6.75 | 3.5  | 12.25 |
| 213-5       | 8.5     | 9.5   | 8     | 5.25 | 4.25 | 7   | 0.41 | 7.94 | 4.5  | 13.69 |
| 254-6       | 8.5     | 11.25 | 11.25 | 6.25 | 5    | 10  | 0.53 | 9.5  | 5    | 17.94 |

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