



**EBARA**

FH 1108

# EBARA END SUCTION VOLUTE PUMP

Model **FHA** (DIN 24256)

50 Hz



■ APPLICATIONS

- 1. Industrial Use
- 2. Water Supply
- 3. Hot and cold water supply
- 4. Swimming pool
- 5. Sprinkling
- 6. Air conditioning

■ FEATURES

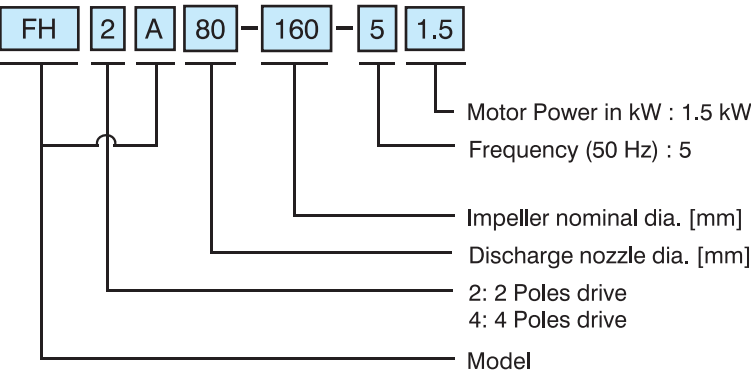
- 1. Easy removal and maintenance, BPO (Back Pull Out) system allows all rotating elements to be removed without disconnecting suction and discharge pipework.
- 2. Top centerline discharge, foot support under casing for maximum resistance to misalignment and distortion from pipe loads
- 3. Non-overload design to ensure stable performance for all applications
- 4. Working pressure up to 16 bar.

■ SPECIFICATIONS

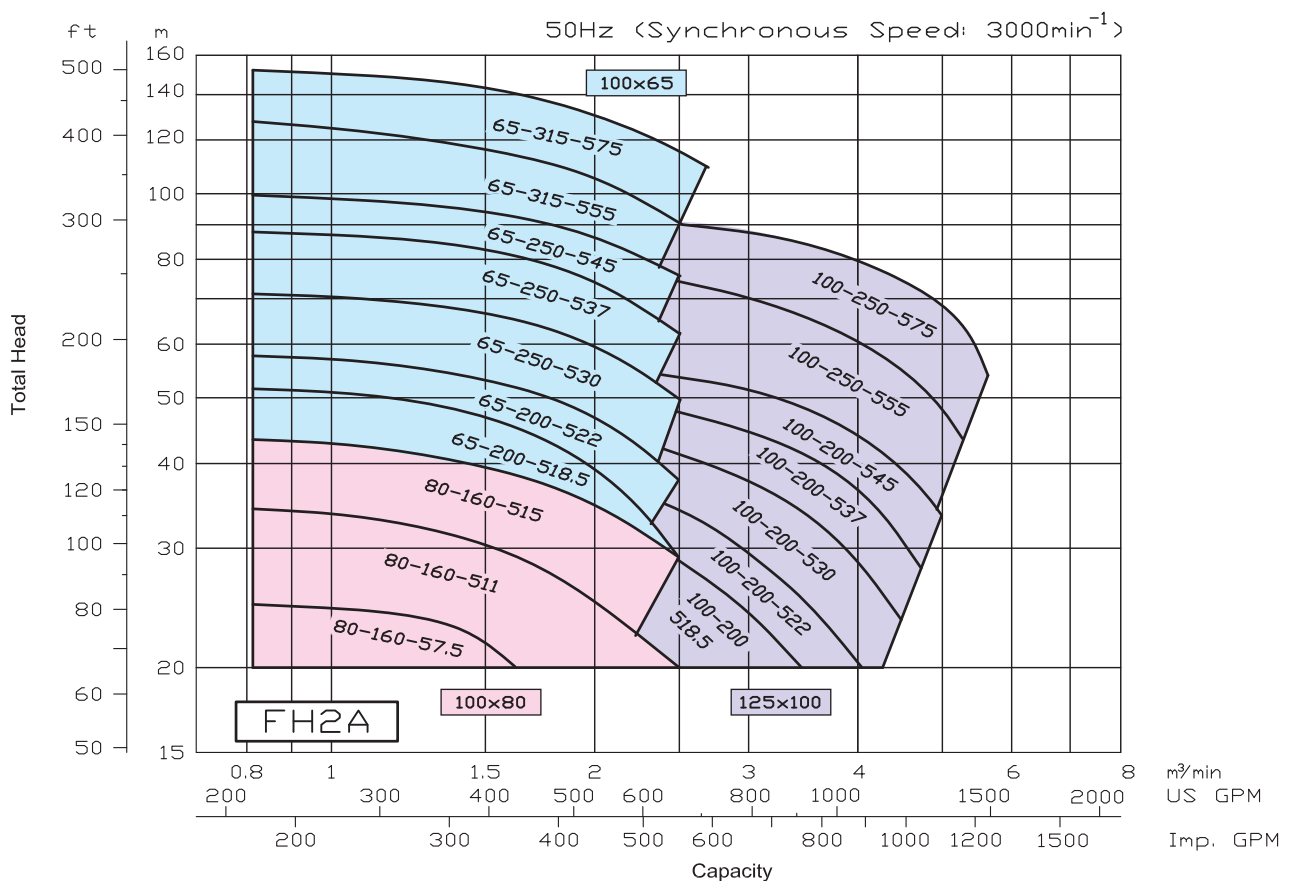
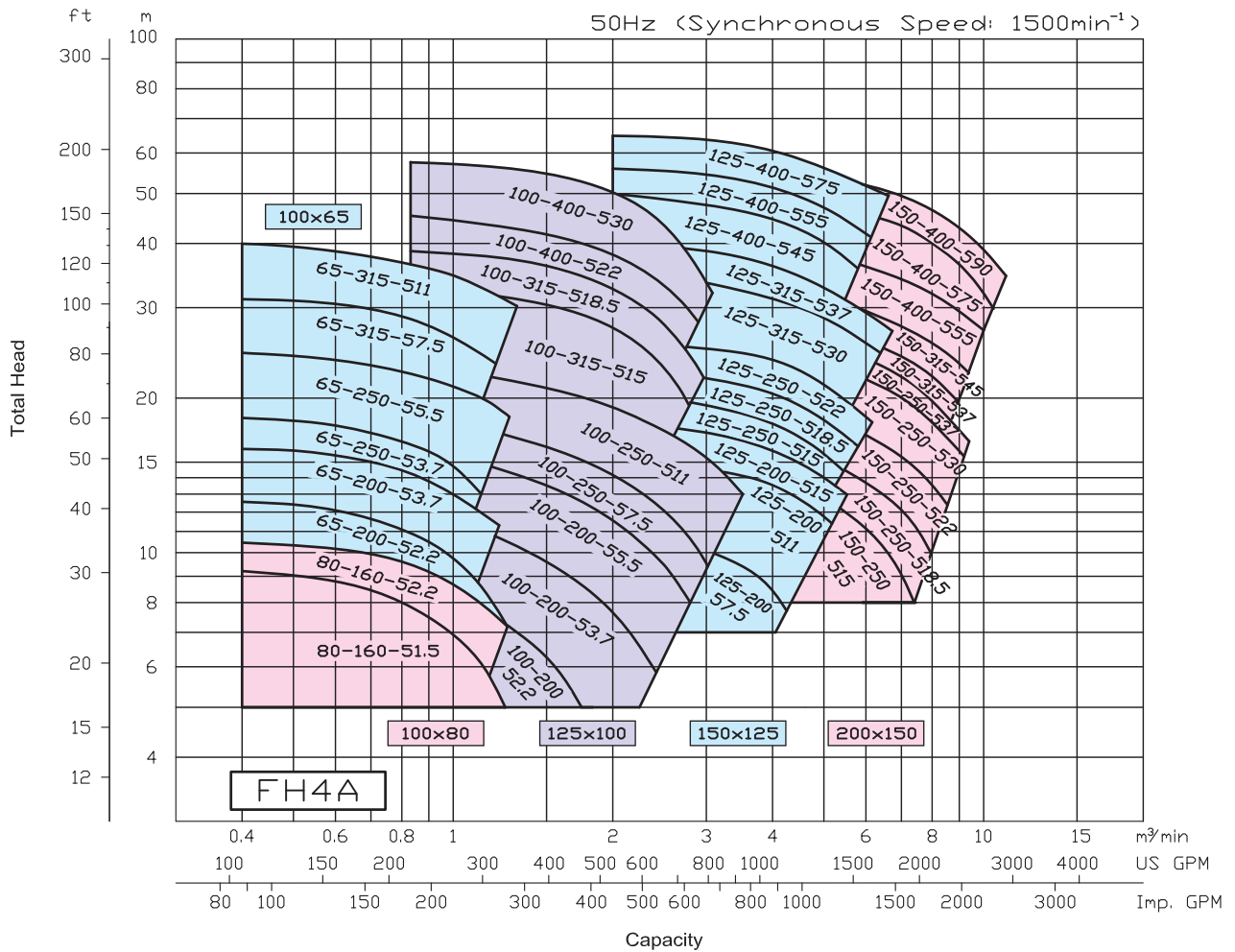
| Description           |                     | Standard                              |                        | Optional                                                               |               |
|-----------------------|---------------------|---------------------------------------|------------------------|------------------------------------------------------------------------|---------------|
|                       |                     | 2 poles model                         | 4 poles model          | 2 poles model                                                          | 4 poles model |
| Liquid                | Name                | Clean water                           |                        | -                                                                      | -             |
|                       | Temperature         | 0 to 80 °C (32 to 176 °F)             |                        | -                                                                      | -             |
| Max. Working Pressure |                     | 16 bar (16.3 kgfcm <sup>2</sup> )     |                        | -                                                                      | -             |
| Sync. Speed           | 50 Hz               | 3000 min <sup>-1</sup>                | 1500 min <sup>-1</sup> | -                                                                      | -             |
| Installation          |                     | Indoors                               |                        | Outdoors                                                               |               |
| Construction          | Impeller            | Enclosed                              |                        | -                                                                      | -             |
|                       | Shaft seal          | Mechanical seal                       |                        | Gland Packing                                                          |               |
|                       | Sealing             | Self flushing                         |                        | External flushing                                                      |               |
|                       | Bearing             | Sealed ball bearing                   |                        | Oil bath                                                               |               |
| Flange                | Suction & Discharge | DIN PN-16                             |                        | JIS 16K, ANSI 250                                                      |               |
| Material              | Casing              | Cast Iron                             |                        | Ductile Cast Iron (FCD)                                                |               |
|                       | Impeller            | Bronze Casting (CAC406 / BC6)         |                        | Cast Iron, Ductile Cast Iron (FCD)                                     |               |
|                       | Shaft               | 403 Stainless steel                   |                        | 304; 316 Stainless steel                                               |               |
|                       | Seal                | Mechanical Seal: Ceramic/Carbon/NBR   |                        | Gland Packing : Teflon (PTFE) impregnated<br>Mechanical Seal : SiC/SiC |               |
| Accessories           | Bare shaft          | -                                     | -                      | Priming funnel ; valve; Companion Flange                               |               |
|                       | With motor          | Common base, Coupling, Coupling guard |                        | Priming funnel ; valve; Companion Flange                               |               |

Note : Refer to the standard specification if you have purchased a standard model. We also offer pumps with optional features according to costumer demand.  
Be careful not to exceed the given specification on the use of your pump.

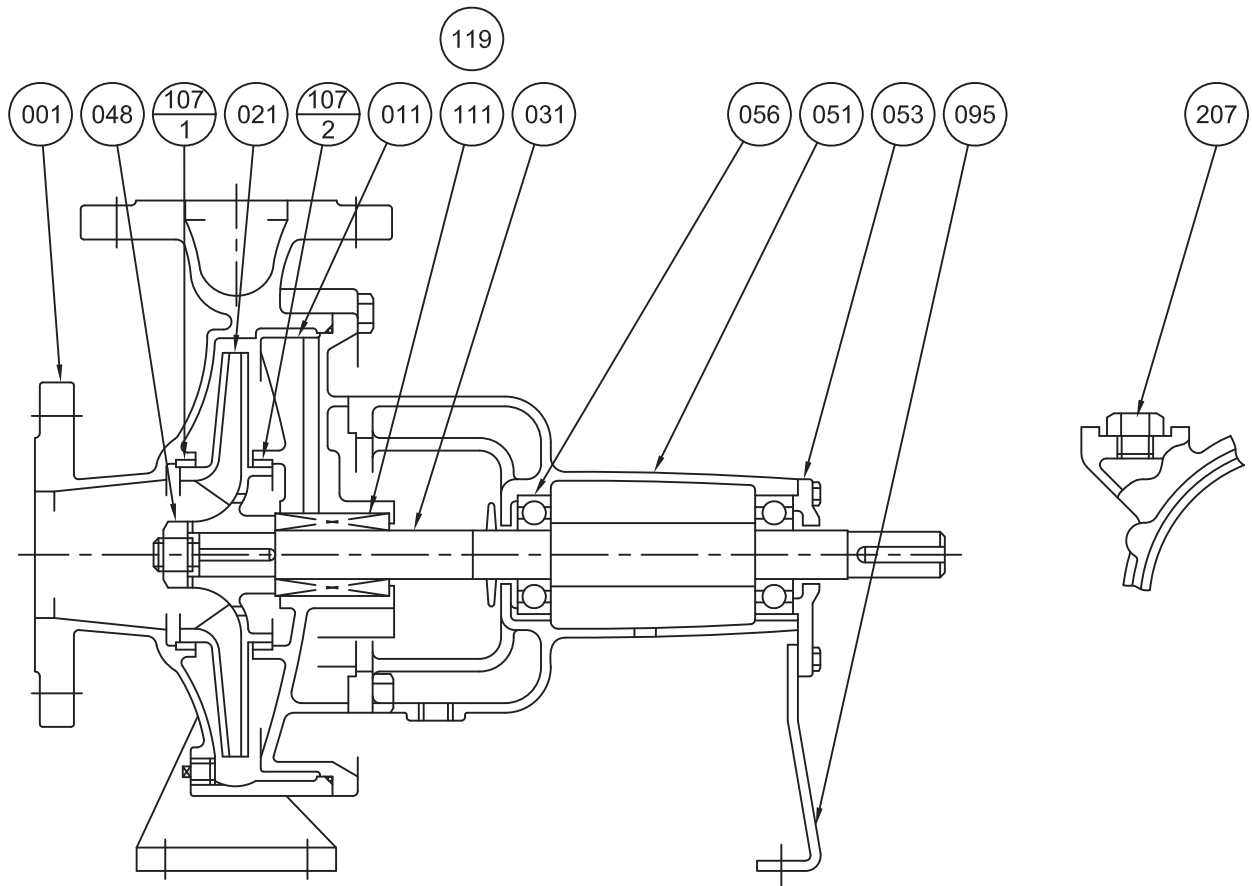
■ MODEL CODE



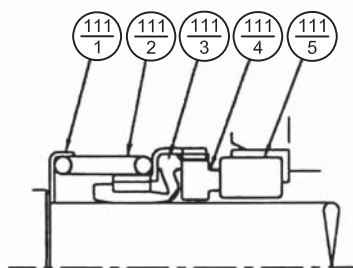
## SELECTION CHART



## SECTIONAL VIEW

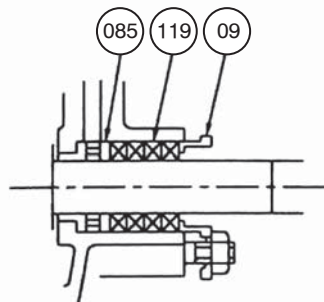


**Mechanical Seal Type (Standard)**



|       |               |                   |     |
|-------|---------------|-------------------|-----|
| 111-5 | Seat          | Ceramic           | 1   |
| 111-4 | Face          | Carbon            |     |
| 111-3 | Friction Ring | NBR               |     |
| 111-2 | Spring        | Stainless Steel   |     |
| 111-1 | Spring Holder |                   |     |
| No.   | Part Name     | Standard Material | Qty |

**Gland Packing Type (Option)**



| 119 | Gland Packing                   | Teflon impregnated | 4 or 5 |
|-----|---------------------------------|--------------------|--------|
| 091 | Gland                           | Bronze             | 1      |
| 085 | Lantern Ring (some models only) |                    |        |
| No. | Part Name                       | Standard Material  | Qty    |

|       |                  |                   |     |
|-------|------------------|-------------------|-----|
| 207   | Water Inlet Plug | Steel             | 1   |
| 119   | Gland Packing    | -                 | -   |
| 111   | Mechanical Seal  | -                 | 1   |
| 107-2 | Casing Ring      | Bronze            |     |
| 107-1 | Casing Ring      |                   |     |
| 095   | Stay             | Steel             | 1   |
| 056   | Ball Bearing     | -                 | 2   |
| 053   | Bearing Cover    | Cast Iron         | 1   |
| 051   | Bearing Housing  |                   |     |
| 048   | Impeller Nut     | Brass             |     |
| 031   | Shaft            | Stainless Steel   |     |
| 021   | Impeller         | Bronze            |     |
| 011   | Casing Cover     | Cast Iron         |     |
| 001   | Casing           |                   |     |
| No.   | Part Name        | Standard Material | Qty |

Note : All listed data are for reference only

Please request to our local representative office for the details

Unit:mm, unless otherwise stated



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