The Nettco i-Series mixer is available in a wide range of mixing and mounting configurations utilizing a unique modular assembly design. With one mixer it is possible to configure a clamp-on, open tank, or sealed mixer design, plus this mixer can be quickly converted from one mounting arrangement to another. Modifying the mounting configuration can be accomplished in less than two minutes.

- Highest quality at a competitive price
- For tank sizes: 0.1 - 20 m³ (25 - 5,000 gal.)
- Designed for OEM Systems Suppliers and end users in general chemical industries
- Wide range of impellers and mounting options

**UNIQUE MODULAR CONCEPT FEATURES:**

- Light weight aluminum construction
  - Proven planetary gearing - robust and reliable
  - Unique, innovative modular design
  - Reverse-taper shaft attachment for added safety
  - Motor, 0.37 - 2.2 kW (1/2 - 3 HP)
    - Washdown (IP55), inverter ready motor
    - Optional air motor available
  - Food grade lubricant optional
  - Fully standardized product
- Direct and gear options for this global use mixer provides full range of shaft speeds (RPM)
  - 1450, 290, and 240 (50 Hz)
  - 1750, 350, and 280 (60 Hz)
- Shaft lengths up to 2100 mm (84”)
- Simple, compact design
- Economical
- Impellers from world’s mixing technology leader
  - Multiple style impellers available
    - Hydrofoil, PBT and FP 100 (Marine Props)
MODULAR DESIGN FEATURES:

Clamp Module (P):
- Bolted onto base module
- Clamps to vessel or stand
- Corrosion-resistant stainless steel clamp
- 0° to 90° vertical adjustment

Adjustable mounting - controls vessel contents swirl for improved mixing.

Fixed-Mount Open Tank Module (Q):
Open Tank Flange Module
- Attaches to base module
Use on open tanks where a seal is not required
  - Vertical on center for baffled tanks
  - Vertical offset for unbaffled tanks
  - Can be angular mounted

Bung Adaptor
Allows for mixing in drums by fitting securely into the opening
- Attaches to base module
- For use on standard drum with a 2" NPT bung
- Stainless Steel construction to prevent corrosion

Fixed-Mount Closed Tank Lip Seal Module (L):
Closed Tank Sealed Module
- Attaches to base module
For closed tanks with seal requirements
  - ANSI or DIN Flange Mount Lip Seal
  - Food grade lip seal good for 0.3 BAR (5 PSI)
    (allowable tank pressure)

Sanitary Flange Lip Seal:
Clamps to sanitary flanges for a simple, clean connection when a low pressure sealing device is required.
- Attaches to base module
  - 3", 4" and 6" Sanitary Flange designs available
  - Food grade lip seal good for 0.3 BAR (5 PSI)
    (allowable tank pressure)
  - Stainless Steel construction to prevent corrosion

Fixed-Mount Closed Tank Mechanical Seal Module (S):
Closed Tank Sealed Module
- Attaches to base module
For closed tanks with seal requirements
  - ANSI or DIN Flange Mount
  - Single dry-running mechanical seal good for 5 BAR (75 PSI)
    (allowable tank pressure)

Sanitary Flange Mechanical Seal Assembly:
Clamps to sanitary flanges for a simple, clean connection when a mechanical seal is required.
- Attaches to base module
  - 3", 4" and 6" Sanitary Flange designs available
  - Single dry-running mechanical seal good for 5 BAR (75 PSI)
    (allowable tank pressure)

With a wide range of sizes, speeds, and mounting options, the Nettco i-Series mixer can be used in a variety of mixing applications. And with Lightnin’s unparalleled mixing experience, every mixer comes with a process guarantee!
MODULAR MIXING SYSTEM:

- **Base Module**
  - **20° Clamp Module**
    - **Flange Module**
      - **Lip Seal Module**
      - **Mechanical Seal Module**
    - **Bung Adaptor**
      - **Sanitary Flange**
      - **Mechanical Seal**
    - **Base with 0° Clamp**
      - **Base with Sanitary Flange**
      - **Base with Lip Seal**
      - **Base with Mechanical Seal**
**L UNIT**

Notations:
1. Dimensions are for reference only unless certified.
2. Lower impeller is installed with stabilizer when required.
3. Lower weight is less shaft and impeller.
4. Dimensions may vary specific application.

- Flange sizes only available on M1/L units.

**P UNIT**

Notations:
1. Dimensions are for reference only unless certified.
2. Lower impeller is equipped with stabilizer when required.
3. Lower weight is less shaft and impeller.
4. Dimensions may vary specific application.

**Q UNIT**

Notations:
1. Dimensions are for reference only unless certified.
2. Lower impeller is installed with stabilizer when required.
3. Lower weight is less shaft and impeller.
4. Dimensions may vary specific application.

**S UNIT**

Notations:
1. Dimensions are for reference only unless certified.
2. Lower impeller is fitted with stabilizer when required.
3. Lower weight is less shaft and impeller.
4. Dimensions may vary specific application.

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## MIXER “BLEND TIME SELECTION TABLE”
### 60 HZ SELECTIONS

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<th>TANK VOLUME/U.S. GALLONS</th>
<th>VISCOSITY/cP or mPa-s</th>
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<td>2</td>
</tr>
<tr>
<td>(0.5/.37)</td>
</tr>
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<td>9**</td>
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<td>(0.75-2/.55-1.3)</td>
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<td>2</td>
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<tr>
<td>(3/2.2)</td>
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**Legend:**
- **Series**: Model Design
- **Drive Ratio**: No.
- **Mounting**: Impeller Dia. (in.)
- **Motor Code**: Impeller Type
- **HP/kW**: FP-100, H = Hydrofoil

### Chart Reference:

- **Model Design**
- **Blend Time (min.)**
- **No.**: FP = FP-100
- **Impeller Diameter (in.)**: H = Hydrofoil

**Example:** Mi1Q2

- **Legend:**
  - Tank height to diameter ratio 0.8 - 1.2
  - Liquids with Newtonian viscosity characteristics
  - S.G. difference of liquids <0.1
  - Use for mild blending applications
  - Maximum density 1.10 g/cm³
  - Maximum viscosity ratio - 10:1 (>250cP)
  - Mixer in operation during filling and emptying

- **Direct Drive** not available with seal.
- **Air Motors**

---

*Nettco Mi Series*
# Mixer “Blend Time Selection Table”
## 50 Hz Selections

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<thead>
<tr>
<th>Viscosity / cP or mPa-s</th>
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<th>1000</th>
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<td>Mi1_1 (1)</td>
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<td>Mi5_2 (27)</td>
<td>Mi5_3 (23)</td>
<td>Mi5_4 (23)</td>
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<td>2 368 H</td>
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</tbody>
</table>

**Chart Reference:**

- **Model Design**
- **Blend Time (min.)**
- **No. Impeller**
- **Impeller Dia. (mm)**
- **Impeller Type**

FP = FP-100, H = Hydrofoil
MULTIPLE IMPELLER STYLES:

**PBT Impeller:**
For low-to-medium viscosity flow controlled applications. Although superseded by the Hydrofoil, the PBT still has a specific role in applications where a degree of fluid shear is beneficial to the overall process result.

**FP 100 Impeller (Marine Prop):**
Recommended for applications requiring moderate pumping action and powder-wetting capabilities.

**Hydrofoil Impeller:**
For low viscosity flow controlled applications. Combines performance and high flow efficiency not found in other axial flow impellers.

GEAR DRIVE MIXER REPAIR KIT:
- Service kits available for rapid replacement of routine service items.

SPX FLOW, Inc. - Global locations

**USA**
13320 Ballantyne Corporate Place
Charlotte, NC 28277
United States of America
+1 704 752 4400

**CHINA**
2F, Treasury Centre
No. 1568 Huashan Road
Shanghai 200052, China
P: +86 (21) 22085889

**UK**
Ocean House,
Towers Business Park
Didsbury, Manchester
M20 2LY, UK
P: +44 161 249 1170

SPX FLOW, LLC - LIGHTNIN & PLENTY MIXERS
135 Mt. Read Blvd.
Rochester, NY 14611
P: (888) 649-2378 (MIX-BEST), US and Canada) or +1 (585) 436-5550
F: (585) 436-5589
E: lightnin@spxflow.com • www.spxflow.com/lightnin

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