

# Dual-Circuit Water-Cooled Chiller



- Each Budzar unit is designed to maximize the productivity of your process. Budzar quality and reliability provide excellent value for each dollar invested.
- Gemini Series chillers achieve rapid payback by reducing lost production due to chiller down-time
- Semi-hermetic compressors feature cylinder unloading capacity control for precise temperature control and extended equipment service life under varying load conditions
- A.S.M.E. constructed steel shell and copper tube chiller vessels and evaporators are specifically selected for optimum performance and efficiency
- Easy-to-monitor function status indicators provide safe, easy operation
- Installation cost is lowered by combining our chillers with water reservoir assemblies. Our units arrive at your plant pre-piped and pre-wired
- All units are factory tested prior to shipment
- Each Budzar unit is constructed with non-proprietary components

## **GEMINI SERIES DUAL-CIRCUIT CENTRAL CHILLERS**

ICE Gemini Series Dual-Circuit, Water-Cooled Chillers are the most reliable chillers on the market. This reliability comes from the dual-circuit design. The Gemini is essentially two chillers in one. Each of the dual chiller circuits is totally unaffected by operating conditions in the other circuit, guaranteeing 50% chiller capacity even if one circuit becomes inoperative. If your process cannot afford a chiller breakdown, the Gemini is for you.

The Gemini Series Chillers offers capacities from 20 to 80 nominal tons. This series is designed for processes requiring chiller fluid temperatures from +30°F to +60°F.

Budzar also designs and manufactures specialized equipment for non-standard applications. Our engineers have extensive experience in process chilling and heating applications for such industries as: rubber, paper, plastics, chemical, food and metal working. We take the time to understand your current and future needs and design a solution targeted at high quality and fast payback.



**ENGINEERING THE FUTURE FOR THE PROCESS INDUSTRIES**



process  
**TEMPERATURE**  
control

# Dual-Circuit Water Cooled Chiller

*GEMINI SERIES DUAL-CIRCUIT CENTRAL CHILLERS WITH INTEGRAL TANK & PUMPS  
WATER-COOLED; DUAL COMPRESSORS; DUAL EVAPORATORS; DUAL CONDENSERS*



| MODEL            |            | GP-20D       | GP-30D       | GP-40D       | GP-50D     | GP-60D     | GP-70D       |
|------------------|------------|--------------|--------------|--------------|------------|------------|--------------|
| Capacity         | Tons       | 20.8         | 32.6         | 36.1         | 46.1       | 53.8       | 71.1         |
| Compressors (2)  | HP Each    | 7 1/2        | 15           | 20           | 25         | 30         | 35           |
| Chiller Pump     | HP         | 1 1/2        | 2            | 3            | 3          | 3          | 5            |
| Chiller Flow     | GPM/PSI    | 62 @ 15      | 93 @ 13      | 110 @ 15     | 140 @ 14   | 160 @ 12   | 204 @ 17     |
| Process Pump     | HP         | 5            | 7 1/2        | 7 1/2        | 10         | 15         | 15           |
| Process Flow     | GPM/PSI    | 83 @ 52      | 125 @ 54     | 140 @ 51     | 190 @ 51   | 210 @ 55   | 272 @ 54     |
| Reservoir Size   | Dimensions | 2.5 x 5 x 3' | 2.5 x 5 x 4' | 2.5 x 5 x 4' | 3 x 6 x 4' | 3 x 6 x 4' | 3.5 x 6 x 5' |
| Reservoir volume | GAL        | 225          | 312          | 312          | 455        | 455        | 680          |
| AMPS @ 460 V.    | AMPS       | 46.2         | 66.6         | 78.8         | 95.8       | 131.6      | 140.8        |
| MCA/MTDF         | AMPS       | 51 / 60      | 74 / 90      | 87 / 100     | 106 / 125  | 145 / 175  | 155 / 175    |

| MODEL            |            | GP-80D       |
|------------------|------------|--------------|
| Capacity         | Tons       | 78.6         |
| Compressors (2)  | HP Each    | 40           |
| Chiller Pump     | HP         | 5            |
| Chiller Flow     | GPM/PSI    | 240 @ 13     |
| Process Pump     | HP         | 20           |
| Process Flow     | GPM/PSI    | 320 @ 55     |
| Reservoir Size   | Dimensions | 3.5 x 6 x 5' |
| Reservoir volume | GAL        | 680          |
| AMPS @ 460 V.    | AMPS       | 161.6        |
| MCA/MTDF         | AMPS       | 178 / 200    |

## General Notes

1. Capacities are listed as gross tons
2. Compressors are Copeland "discus" high efficiency type
3. Chiller flows are based on 8°F water delta
4. Process flows are based on 6°F water delta
5. For AMPS @ 230 V. double the listed values
6. MCA = Minimum circuit ampacity
7. MTDF = maximum Time delay fuse

Budzar Industries reserves the right to discontinue or change specifications without notice, consistent with sound engineering practice and current industrial standards



38241 Willoughby Parkway  
Willoughby, Ohio 44094-7583  
440-918-0505 · Fax 440-918-0606 / 0707  
www.budzar.com · E-mail sales@budzar.com