

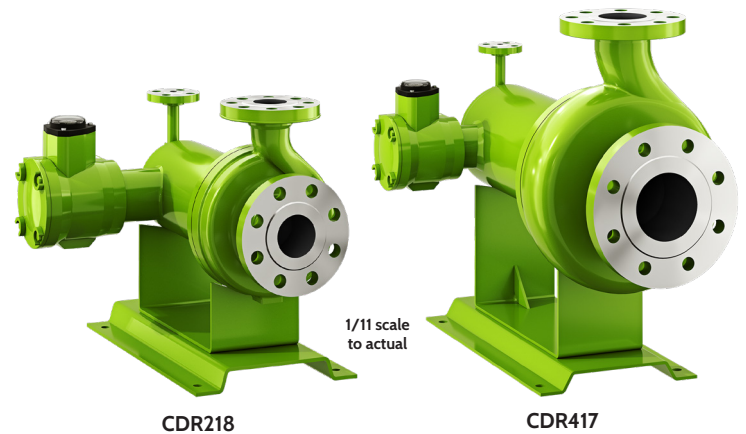
# CDR

## CARBON DIOXIDE REFRIGERANT PUMPS

### Redefining CO<sub>2</sub> Pumps

TEIKOKU's new CDR pump series covers all Liquid Carbon Dioxide refrigerant market needs. Innovations in sealless motor technology and liquid containment have been combined to produce TWO speed-controlled compact pumps that cover a range of capabilities that formerly required FIVE fixed speed models. System designers and packagers can now expect reduced variation, inventory, and operating cost while providing users with enhanced process control and more efficient operation. CDR pumps are stocked as standard in a 600 psi design to cover the widest range of LCO<sub>2</sub> operating temperatures and corresponding vapor pressures in the industry. For maximum operating effectiveness, CDR pumps require a Variable Frequency Drive (VFD), which can be supplied by Teikoku or per user preference.

CDR pumps include all the features that make TEIKOKU the world leader in leakproof pump design and fluid containment. Each pump is equipped with TEIKOKU's proven bearing wear monitor, Teikoku Rotary Guardian (TRG™), for managing predictable and easy maintenance schedules while providing positive secondary containment that ensures plant safety, maximum user risk mitigation and zero environmental impact—the ultimate in a total **Low Probability\* pump solution**. Both CDR218 and CDR417 pumps, as well as TEIKOKU Speed Guardian (TSG™), and VFD speed controllers are available for quick shipment.



### Only Two CDR Pump Models Cover Flows to 500 GPM and Heads to 180 Feet (81 psid)

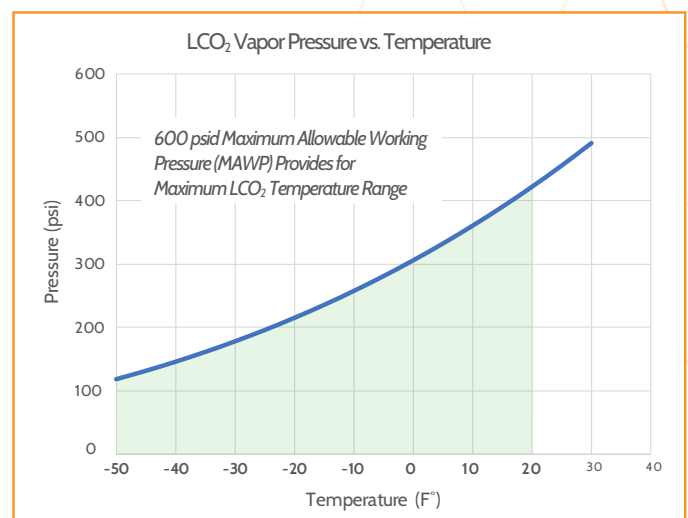
- 600 PSI Rated
- Discharge Orifice Flow Control of High Vapor Pressure
- Immediate availability

#### CDR218 MODEL R44-218P4BL-0506SS1-J

- Flows to 155 GPM
- High Speed P-Motor

#### CDR417 MODEL R44-417C4BL-0810T1-E

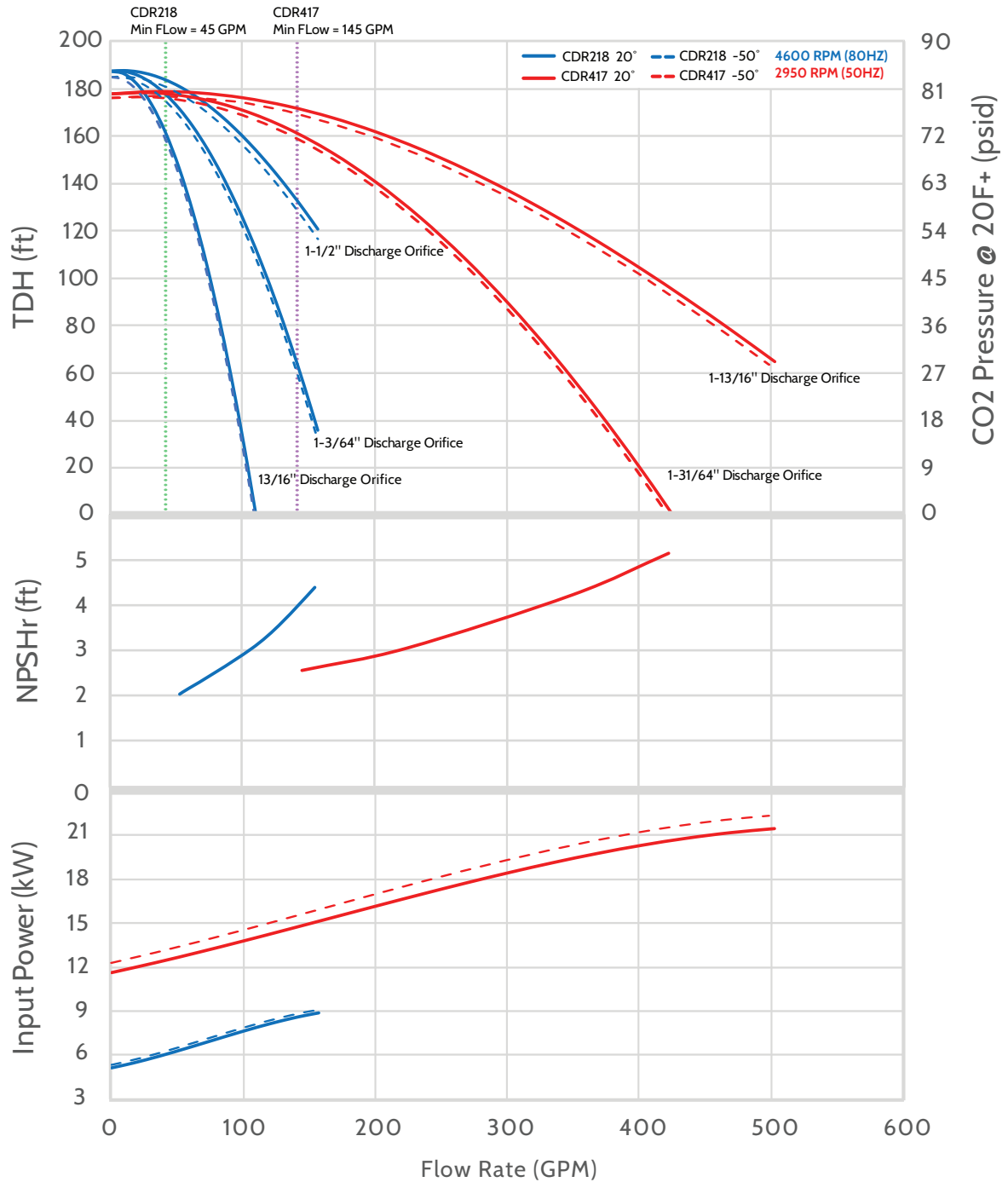
- Flows to 350 GPM
- Low Speed C-Motor



Interested in the CDR?

Contact Teikoku for more information:  
[info@teikokupumps.com](mailto:info@teikokupumps.com)

# CDR 218 & 417 PERFORMANCE OVERVIEW -50° TO 20° F



TDH (ft)	FLOW (gpm)	FIXED SPEED MOTOR	SIZE	INPUT kW @ DESIGN	CDR VARIABLE SPEED MOTOR	CDR SIZE	INPUT kW @ DESIGN
120	60	R44-217C	2x1.5-6	5.3	R44-218P	2.5x2-5	7.5
120	100	R44-317C	3x2.5-6	9.5			9
120	155	R44-317C	3x2.5-8	10.8			9.6
120	255	R44-526C	4x3-8	21.7	R44-417C	4x3-8	19.5
120	350	R44-526C	5x4-12	22.7			22.4