







Owik -Freezer™

Pipe Freezing Tables

The tables below are for typical freezing of static water at 68°F in Schedule 40 steel pipe. Higher temperatures will require additional injection and waiting periods. Plastic pipe will take up to 3 times longer. Refer to Operating Manual for detailed instructions. For freezing applications on pipes larger than 8" (203mm) in diameter, please contact COB Industries for information.

3/8" to 3" FREEZING TABLE

PIPE JACKET	QF101 (8 INCHES)	QF102 (1	12 INCHES)	QF103 (14 INCHES)		
Pipe	1/2"	3/4"	1"	1 1/2"	2"	3"	
Size	(12.5mm)	(18.75mm)	(25mm)	(27.5mm)	(50mm)	(75mm)	
No. of Injections	2	2	3	4	3	6	
Injection Time	1 min	1 min	1 min	1 min	5 min	5 min	
Waiting Time	3 min	3 min	5 min	5 min	5 min	5 min	
Total Time Required	8 min	8 min	18 min	24 min	30 min	60 min	
${\sf Approx}\ {\sf CO_2}\ {\sf Required}$	1 lb	1 lb	3 lbs	6 lbs	18 lbs	36 lbs	

4" to 8" FREEZING TABLE

QF104 (20	INCHES)	QF106 (28	INCHES)	QF108 (33 INCHES)		
Size 3"		5"	6"	7"	8"	
(75mm)	(100mm)	(125mm)	(150mm)	(175mm)	(203mm)	
6	7	9	11	15	17	
6 min	8 min	12 min	12 min	12 min	12 min	
8 min	10 min	8 min	8 min	8 min	8 min	
84 min	126 min	190 min	220 min	310 min	340 min	
42 lb	65 lb	243 lbs	297 lbs	405 lbs	475 lbs	
	3" (75mm) 6 6 min 8 min 84 min	(75mm) (100mm) 6 7 6 min 8 min 8 min 10 min 84 min 126 min	3" 4" 5" (75mm) (100mm) (125mm) 6 7 9 6 min 8 min 12 min 8 min 10 min 8 min 84 min 126 min 190 min	3" 4" 5" 6" (75mm) (100mm) (125mm) (150mm) 6 7 9 11 6 min 8 min 12 min 12 min 8 min 10 min 8 min 8 min 84 min 126 min 190 min 220 min	3" 4" 5" 6" 7" (75mm) (100mm) (125mm) (150mm) (175mm) 6 7 9 11 15 6 min 8 min 12 min 12 min 12 min 8 min 10 min 8 min 8 min 8 min 84 min 126 min 190 min 220 min 310 min	

Qwik-Freezer™

Pipe Freezing Kits

3/8" to 3" PIPE FREEZING KITS

These kits contain the following standard accessories: gloves, rubber mallet, timing log, safety glasses, operating manual, and carrying case. Indiividual items (jackets) may also be ordered separately. Double freeze kits available through 8". Please contact factory.

		J			,	
KIT NO.	QF101 8" (203mm) Jacket	QF102 12" (305mm) Jacket	QF103 14" (356mm) Jacket	QF800 Hose (10ft)	QFAL 20 20lb. CO ₂ Cylinder	QF801 Valve Adapter
QF1500 3/8" (9.37	1 75mm) to 1	1 1/2" (37.5m	– im) pipe	1	1	1
QF2000 3/4" (18.7)	– 75mm) to 1	1 1/2" (37.5m	– ım) pipe	1	1	1
QF2200 3/4" (18.7	– 75mm) to 1	2 1/2" (37.5m	– ım) pipe (Doul	2 ble Freeze	2	2
QF3000 3/8" (9.37	1 75mm) to 3	1 " (75mm) pip	1	2	2	2

Owik -Freezer™

Pipe Freezing Kits

4" to 8" PIPE FREEZING KITS

These kits contain the following standard accessories: gloves, rubber mallet, timing log, safety glasses, operating manual, and carrying case. Individual items (jackets) may also be ordered separately. Refer to the price list for a complete parts listing.

KIT NO.	QF101 8" JKT (203mm)	QF102 12" JKT (305mm)	QF103 14" JKT (356mm)	QF104 20" JKT (508mm)	QF106 28" JKT (711mm)	QF108 33" JKT (838mm)	QF800B Hose (16ft)	QF801 Valve Adaptor	QF802 T- Connector	QF815 Timing Board	QFL50 50lb CO ₂ Cylinder
QF4000 3/8" to 4" pi	1	1	1	1	-	-	*	2	2	1	2
QF4100 3" to 4" pipe	-	-	-	1	-	-	*	2	2	1	2
QF6000 3/8" to 6" pi	1 pe	1	1	1	1	-	4	4	2	1	6
QF6100 5" to 6" pipe	-	-	-	-	1	-	3	4	2	1	6
QF8000 3/8" to 8" pi	1 pe	1	1	1	1	1	4	4	2	1	12
QF8100 7" to 8" pipe	-	-	-	-	-	1	4	4	2	1	12

^{*} All 4" kits come with 10 ft Hoses

$Accu-Freeze^{TM}$ (patented)

The Controlled Liquid Nitrogen Pipe Freezing System

- Larger diameter pipe
- Challenging freezes (glycol, oil, etc.)
- Controls the temperature of the pipe wall

Accu-Freeze® was created to meet a specific need in the nuclear industry for "controlled pipe freezing". In other words, the ability to freeze pipes to create an ice plug while controlling the temperature that the pipe wall is subjected to. Accu-Freeze Kits include a digital controller and a solenoid header assembly that allow the operator to actually set and control the temperature of the pipe wall. The system then automatically injects the necessary amounts of LN2 required to freeze the pipe to the programmed temperature. The system can also be operated from remotely. Accu-Freeze is used by nuclear facilities and power plants across the USA and Europe and by the US Navy on nuclear powered vessels. Accu-Freeze was also used by NASA for an urgent hydraulic line repair on the Space Shuttle Atlantis while on the launch





pad. Standard Accu-Freeze Kits are available for up to 12" diameter pipe (can be modified to accommodate larger pipe diameters) and can be used to freeze fluids with lower freeze points than water such as glycol.

TAKE THE COB ADVANTAGE • 1.800.431.1311 • www.cob-industries.com • sales@cob-industries.com