

# Concrete Vibrators



## Quality Vibration

Ingersoll-Rand concrete vibrators deliver the mid-frequencies, high amplitudes and powerful centrifugal forces required to set particles in motion for the rapid and efficient consolidation of concrete in forms. A wide variety of vibratory heads, flexible shafts and power sources are offered to produce concrete with maximum strength and density qualities.

## Power Link Units — Electric

Ingersoll-Rand industrial-strength electric power units are available in three different sizes to meet varying application, shaft length and head-diameter requirements. These units feature:

- Optimum frequencies to relieve air and voids in the concrete mix
- Protective cast-aluminum housing
- Rugged, wrap-around, shock-absorbing frames
- Easy access to all serviceable parts
- UL and cUL listed
- Interchangeable shaft adapters
- Heavy-duty motor windings
- Watertight, strain-release power cords

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## Specifications

### COUPLERS

Available in standard or quick disconnect configurations for adding shaft sections together.

#### FLEX SHAFT — STANDARD

Heavy duty, universal, and durable shafts accept 0.75 to 2.50 inch heads and are available in shaft lengths of 2 to 21 feet. These rugged shafts enable better pokeability in open areas.

#### FLEX SHAFT — PENCIL

Light duty, universal, durable shafts accept 0.75 to 1.00 inch heads and are available in shaft lengths of 2 to 21 feet. These light duty shafts enable versatility and flexibility in confined work areas.

#### VIBRATOR HEADS — STANDARD

Ingersoll-Rand heads generate the highest amplitude and frequencies and are factory-sealed for virtually no maintenance. Four high-performance, long-lasting ball bearings, and alloy steel housings resist wear and extend the life of the each head.

#### VIBRATOR HEADS — SOFT TIPS, COATED

Provide protection for expensive forms and epoxy-coated rebar, available in 1.00 to 2.50 inch diameters.

#### PL25BP BACKPACK UNIT

The compact, gas-powered concrete vibrator is a versatile one-person operation. There are no air hoses or electric cords to tangle, and it enables operation in hard-to-reach places.

MODEL	PL15E**	PL20E**	PL30E**	PL25BP
<b>SIZE / DIMENSIONS</b>				
Weight lb (kg)	17.0 (7.7)	19.0 (8.6)	25.0 (11.3)	19.0 (8.6)
Length in (mm)	12.8 (323)	12.8 (323)	13.5 (342)	11.0 (279)
Width in (mm)	8.5 (216)	8.5 (216)	9.0 (228)	11.0 (279)
Height in (mm)	8.5 (216)	8.5 (216)	9.0 (228)	23.0 (584)
<b>PERFORMANCE</b>				
Power Source	Universal Electric Motor 120V, 15A, grounded	Universal Electric Motor 120V, 15A, grounded	Universal Electric Motor 120V, 20A, grounded	Gas 2-Cycle EFCO
Plug Type	Standard Blade	Standard Blade	Twist Lock	
Power hp (kW)	1.8 (1.3)	2.4 (1.8)	3.2 (2.4)	2.2 (1.6)
Speed No-load rpm	14,000	16,000	17,000	10,600
Voltage AC/DC	115 or 220	115 or 220	115 or 220	
Rated Amperage A	13 / 6.5	17 / 8.5	25 / 12.5	
Frequency Hz	50 – 60	50 – 60	50 – 60	
Cord Length in (mm)	12 (304)	12 (304)	12 (304)	

\*\*Available in either standard or quick disconnect direct from the factory.

### VIBRATOR HEAD SPECIFICATIONS

Head Diameter & Length in (mm)	Force lb (N)	Amplitude to Side at Tip in (mm)	Radius of Influence in (mm)	Capacity y <sup>3</sup> /hr (m <sup>3</sup> /hr)
0.75 x 12 (19 x 305)	112 (498)	.070 (1.78)	4 (102)	4 (3.64)
1.00 x 13 (25 X 330)	183 (820)	.075 (1.91)	5 (127)	6 (5.46)
1.25 x 13 (32 x 330)	430 (1913)	.080 (2.03)	7 (178)	8 (7.28)
1.50 x 14 (38 x 356)	760 (3380)	.090 (2.29)	14 (356)	12 (10.92)
1.75 x 14 (44 x 356)	1,100 (4893)	.110 (2.79)	18 (457)	24 (21.84)
2.00 x 14 (51 x 356)	1,450 (6450)	.130 (3.30)	22 (559)	35 (31.85)
2.50 x 13 (64 x 330)	2,330 (10364)	.150 (3.81)	25 (635)	42 (38.22)

COUPLERS	DESCRIPTION	CPN
Coupler	Standard Shaft Connection	17125584
Coupler — QD	Quick Disconnect	17125592
FLEX SHAFT — STANDARD	DESCRIPTION	CPN
FSS 2	2'0"	17125295
FSS 5	5'0"	17125287
FSS 7	7'0"	17125279
FSS 10	10'0"	17125261
FSS 14	14'0"	17125253
FSS 21	21'0"	17125246
FSS 7BP*	7'0"	17125329
FSS 10BP*	10'0"	17125311
FSS 14BP*	14'0"	17125303
FLEX SHAFT — PENCIL	DESCRIPTION	CPN
FSP 2	2'0"	17125386
FSP 5	5'0"	17125378
FSP 7	7'0"	17125360
FSP 10	10'0"	17125352
FSP 14	14'0"	17125345
FSP 21	21'0"	17125337
VIBRATOR HEADS — STANDARD	NOMINAL SIZE	CPN
VH 0.75	0.75"	17125113
VH 1.00	1.00"	17125121
VH 1.25	1.25"	17125139
VH 1.50	1.50"	17125147
VH 1.75	1.75"	17125154
VH 2.00	2.00"	17125162
VH 2.50	2.50"	17125170
VH 0.75BP*	0.75"	17125188
VH 1.00BP*	1.00"	17125196
VH 1.25BP*	1.25"	17125204
VH 1.50BP*	1.50"	17125212
VH 1.75BP*	1.75"	17125220
VH 2.00BP*	2.00"	17125238
VIBRATOR HEADS — COATED	NOMINAL SIZE	CPN
VH 1.00C	1.00"	17125394
VH 1.25C	1.25"	17125402
VH 1.50C	1.50"	17125410
VH 1.75C	1.75"	17125428
VH 2.00C	2.00"	17125626
VH 2.50C	2.50"	17125436
VH 1.00BPC*	1.00"	17125444
VH 1.25BPC*	1.25"	17125451
VH 1.50BPC*	1.50"	17125469
VH 1.75BPC*	1.75"	17125477
VH 2.00BPC*	2.00"	17125485
DECK / SLAB HEADS	NOMINAL SIZE	CPN
VH 1.25S	1.25"	17125501
VH 1.50S	1.50"	17125519
VH 1.75S	1.75"	17125527
VH 2.00S	2.00"	17125568
VH 1.50SBP*	1.50"	17125543
VH 1.25SBP*	1.25"	17125535
VH 1.75SBP*	1.75"	17125550
VH 2.00SBP*	2.00"	17125618

\* For use with PL25BP, quick disconnect (QD) only.



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