

# Ingersoll-Rand®

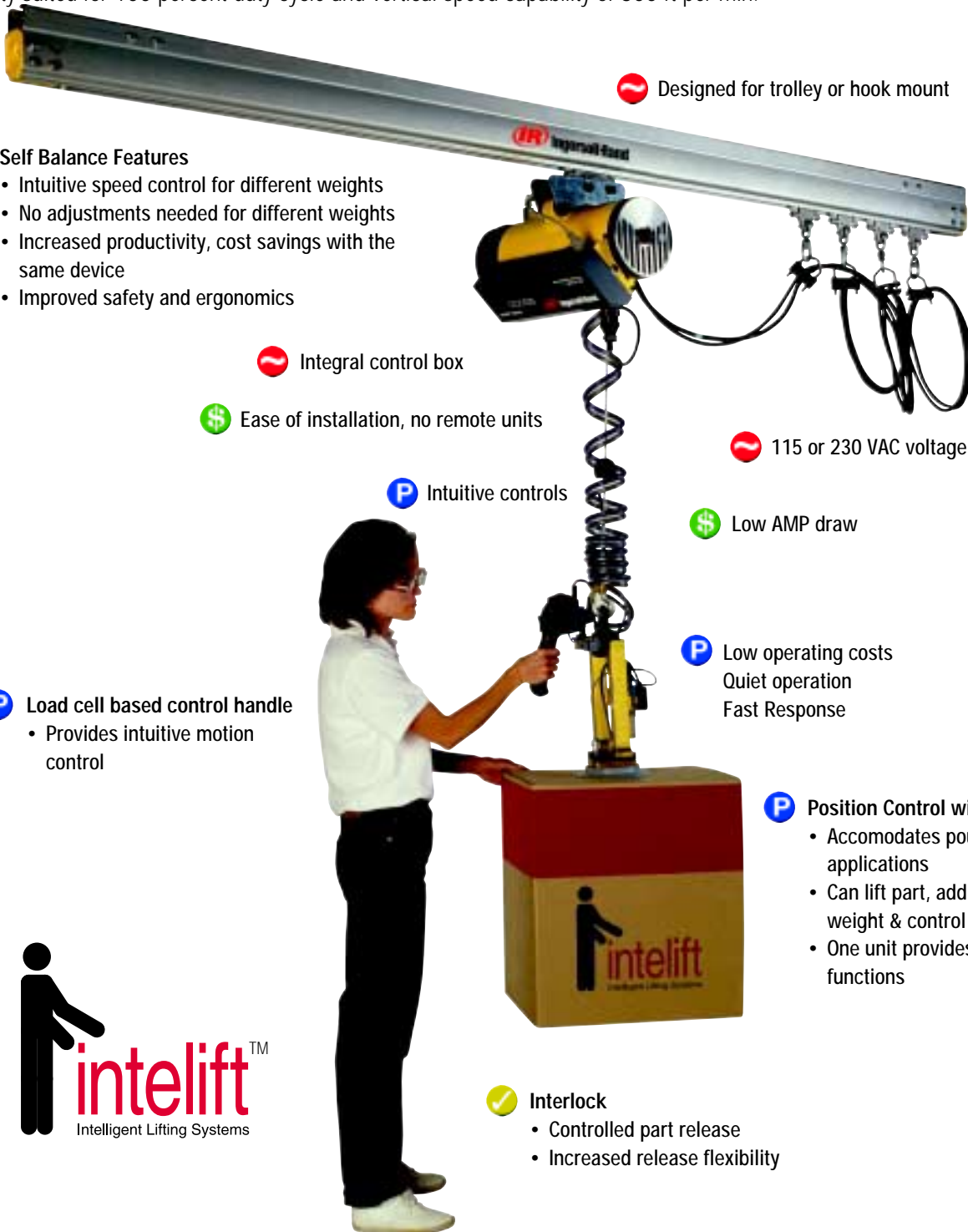
## Intelift™ Intelligent Lifting System



**IR Ingersoll-Rand®**

# Intelift Intelligent Lifting System

Ingersoll-Rand Intelift air balancers combine the industry's finest, thoroughly proven mechanical balancing technology with the intelligence of precise, reliable electronic controls. This innovative combination is the first in a new series of intelligent lifting systems, and provides operators with a safe, ergonomically beneficial, and highly flexible solution that can enhance productivity and cost savings. The Intelift unit covers a capacity range of 150 lbs (68 kg) to 1,000 lbs (454 kg), with durability suited for 100 percent duty cycle and vertical speed capability of 300 ft per min.



**~** Designed for trolley or hook mount

**P** **Self Balance Features**

- Intuitive speed control for different weights
- No adjustments needed for different weights
- Increased productivity, cost savings with the same device
- Improved safety and ergonomics

**~** Integral control box

**+** Ease of installation, no remote units

**~** 115 or 230 VAC voltage power supply

**+** Low AMP draw

**P** Intuitive controls

**P** Load cell based control handle

- Provides intuitive motion control

**P** Low operating costs

- Quiet operation
- Fast Response

**P** Position Control with Dump Mode

- Accommodates pouring/dumping applications
- Can lift part, add weight, remove weight & control position
- One unit provides multiple functions

**✓** Interlock

- Controlled part release
- Increased release flexibility

**intelift**<sup>TM</sup>  
Intelligent Lifting Systems

**~** Flexibility

**✓** Safety

**e** Ergonomics

**P** Productivity

**+** Cost Savings

# New Ergonomically Superior Control Handle

The unique design of the control handle provides multi functional capabilities, reducing the sequence of operations and cycle time. The control handle is available in two styles:

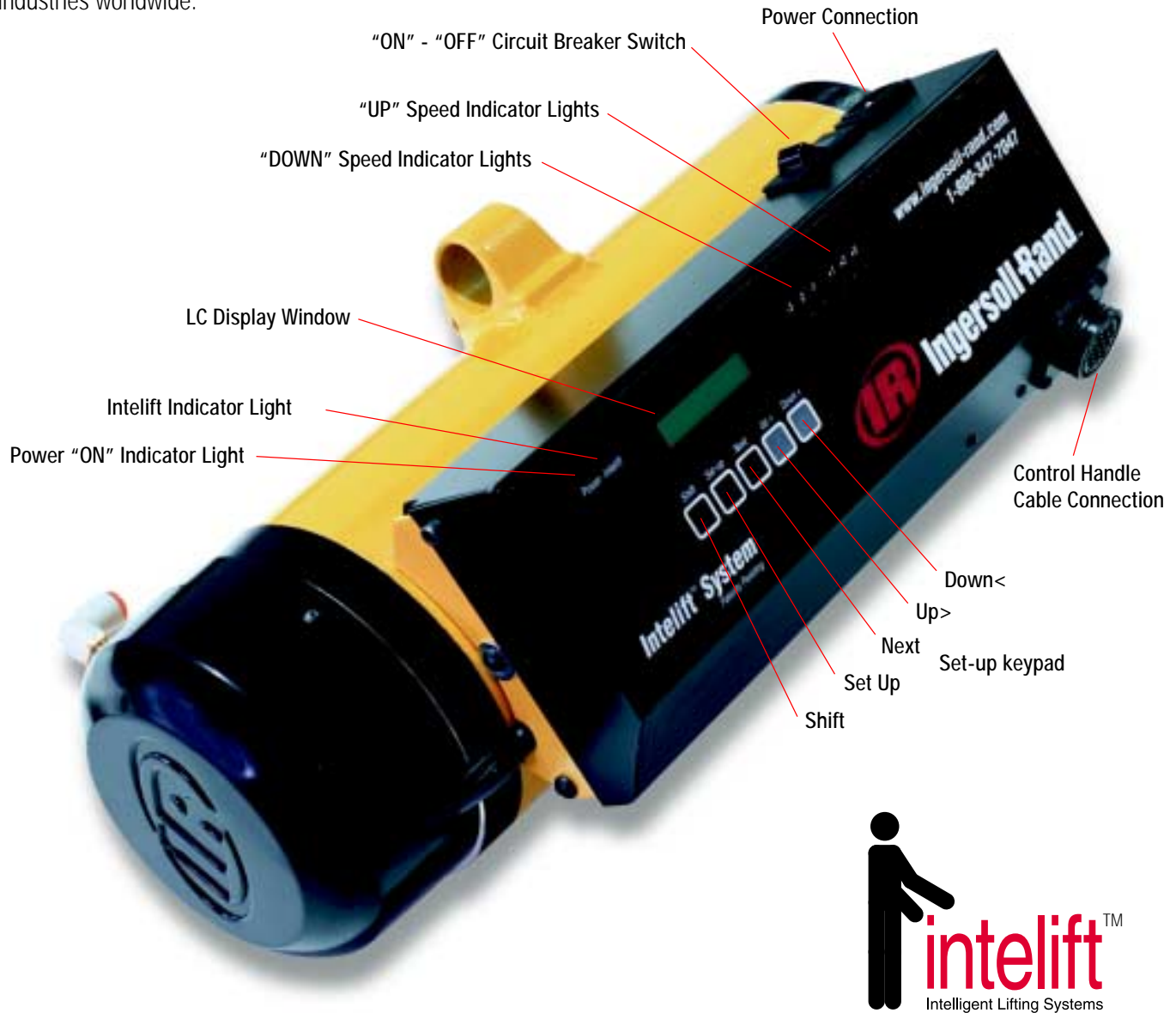
- Pendant control handle
- Force Sensing control handle (no up/down buttons)



**HPe**  
High Performance Ergonomics

# Best-In-Class Intelift Control System

The Intelift control module is a compact, integral element of the balancer itself. No cumbersome remote add-ons are necessary. It provides simple programming of functions with a keypad and indicator lights, and confirms settings with an easy-to-read display window. The closed loop feedback system delivers positive motion control and a wide range of application options for vehicle assembly, general industry, beverage and warehouse as well as textile and electronics industries worldwide.



Self-balance features enables intuitive speed control for different weights. Float mode allows the float capability through out the entire length of travel by maintaining constant pressure in the balancer using a pressure sensor. Position control through the Dump mode feature is achieved with closed loop feedback system. Smart drop feature allows lowering of the load until only the weight of the end effector is supported, reducing the sequence of operations. Part present feature enables clamping of parts in poor visibility. When used with vacuum cup devices, reduces air consumption and noise level. Up control disable feature ensures parts are securely clamped before permitting loads to be lifted. The 3 speed select feature further enhances the flexibility and productivity of the Intelift system.



# Intelift Intelligent Lifting System

## **P** Float Mode Functions

- Precise Positioning
- Allows part manipulation
- Can float the entire length of travel

**\$** Quick installation and set-up

**~** Patented Z-Brake  
Other patents applied for

## **P** 3 Speed Select

- Offers flexibility to the operator
- Offers application flexibility
- Allows operator training at lower speeds

## **P** Smart Drop Features

- Pre-release interlock enhancement
- Reduces sequence of operations

**P** Robust design for continuous duty with minimal maintenance

**\$** Simple operation for reduced training time and costs

A complete range of end effectors can be used with Intelift controls for greater efficiency, from the simplest to the most complex device. The Intelift unit incorporates a fully grounded, fault-protected electrical system, with fused circuits and memory that automatically reinstates function selections following a power interruption. In every respect, the Ingersoll-Rand Intelift air balancer is an essential solution for a more productive workplace, empowering individuals to work more comfortably and effectively, significantly contribute to product and process quality.

**~** Flexibility

**✓** Safety

**e** Ergonomics

**P** Productivity

**\$** Cost Savings

# Intelift Intelligent Lifting Unit Specifications

## Intelift Control Options

IB = Intelift Basic, no controls<sup>(2)</sup>

IA = Intelift Pendant control handle with 12' twin bonded pre-coil cable

IC = Intelift Force Sensing control handle with 12' twin bonded pre-coil cable

IS = Intelift Pendant control handle with 12' straight electric cable



## Intelift Air Balancers

Model Single wire rope units	Capacity at 100 psi		Vertical hook travel		Diameter of Balancer		Net Weight	
	lbs	kg	in.	mm	in.	mm	lbs	kg
IBW015080 <sup>(1)</sup>	150	68	80	2032	6.5	165	60	27
IBW020120	200	91	120	3048	10	254	72	33
IBW033080	330	150	80	2032	10	254	72	33
IBW050080	500	227	80	2032	10	254	120	54
IAW015080 <sup>(1)</sup>	150	68	80	2032	6.5	165	60	27
IAW020120	200	91	120	3048	10	254	72	33
IAW033080	330	150	80	2032	10	254	72	33
IAW050080	500	227	80	2032	10	254	120	54
ICW015080 <sup>(1)</sup>	150	68	80	2032	6.5	165	60	27
ICW020120	200	91	120	3048	10	254	72	33
ICW033080	330	150	80	2032	10	254	72	33
ICW050080	500	227	80	2032	10	254	120	54
ISW015080 <sup>(1)</sup>	150	68	80	2032	6.5	165	60	27
ISW020120	200	91	120	3048	10	254	72	33
ISW033080	330	150	80	2032	10	254	72	33
ISW050080	500	227	80	2032	10	254	120	54

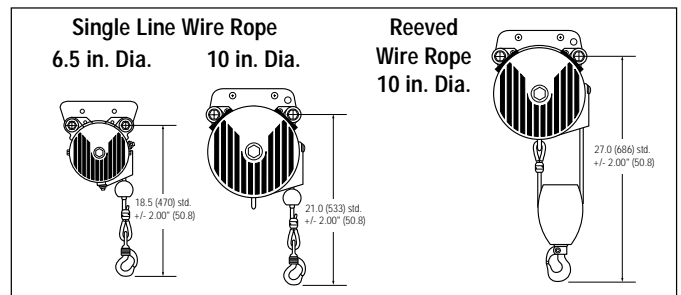
## Intelift Air Balancers

Model Reeved Units	Capacity at 100 psi		Vertical hook travel		Diameter of Balancer		Net Weight	
	lbs	kg	in.	mm	in.	mm	lbs	Kg
IBW040060	400	182	60	1524	10	254	65	30
IBW066040	660	300	40	1016	10	254	77	35
IBW100040	1000	454	40	1016	10	254	125	57
IAW040060	400	182	60	1524	10	254	65	30
IAW066040	660	300	40	1016	10	254	77	35
IAW100040	1000	454	40	1016	10	254	125	57
ICW040060	400	182	60	1524	10	254	65	30
ICW066040	660	300	40	1016	10	254	77	35
ICW100040	1000	454	40	1016	10	254	125	57
ISW040060	400	182	60	1524	10	254	65	30
ISW066040	660	300	40	1016	10	254	77	35
ISW100040	1000	454	40	1016	10	254	125	57

(1) Not available with Z Stop option

W=Wire rope

(2) Controls are required to operate the unit



# How to Order

Example: IAW020120A21SP

IA W 020 120 A2 1 S P

## Intelift Control Options

- IB = Intelift Basic, no controls
- IA = Intelift Pendant control handle with 12' twin bonded pre-coil cable
- IC = Intelift Force Sensing control handle with 12' twin bonded pre-coil cable
- IS = Intelift Pendant control handle with 12' straight electric cable

## Type

- W = Wire rope

## Capacity

- 020 = 200 lbs (91kg) [for available capacities, refer to model number tables]

## Travel

- 120 = 120 inches (3048mm) [for available travel, refer to model number tables]

## Suspension Options

- 00 = No Suspension
- S2 = ZRS2 steel rail
- S3 = ZRS3 steel rail
- V2 = IRV2
- HM = Hook Mount
- TR = T-Rail / I-Beam
- AT = ZRAT Aluminum rail
- A1 = ZRA1 Aluminum rail
- A2 = ZRA2 Aluminum rail
- K1 = KBK1 steel rail
- K2 = KBK2 steel rail
- E4 = ETA-4 Aluminum rail
- E8 = ETA-8 Aluminum rail

## Voltage Options

- 1 = 115V 50/60Hz 1PH
- 2 = 230V 50/60Hz 1PH

## Z-Stop Option

- 0 = None
- S = Z-Stop

## Power Cord Option

- 0 = None
- P = 6' Power Cord

