



ISE Advantage

Stainless Steel Ice Storage Equipment



30" Single Door Upright Ice Storage

Features

- Stainless steel front and sides with galvanized steel back and bottom
- Large opening for scoop dispensing
- Seamless polyethylene liner with covered corners
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

705

30" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
705-SS	741 lbs	30"	34"	58"	240lbs
Add 10.5" to depth for snout					



905

30" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
905-SS	1023lbs	30"	34"	78"	285lbs
Add 10.5" to depth for snout					



36" Single Door Upright Ice Storage



Features

- Stainless steel front, sides, back, bottom and liner
- Large opening for scoop dispensing
- ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Adjustable feet
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

965

36" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
965-SBB	1069lbs	36"	34"	67"	295lbs
Add 10.5" to depth for snout					

48" Single Door Upright Ice Storage

Features

- Stainless steel front and sides with galvanized steel back and bottom
- Large opening for scoop dispensing
- Seamless polyethylene liner with coved corners
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

1045

48" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
1045-SS	1161lbs	48"	34"	55"	280lbs
Add 10.5" to depth for snout					



1315

48" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
1315-SS	1457lbs	48"	34"	67"	320lbs
Add 10.5" to depth for snout					



60" Single Door Upright Ice Storage

Features

- Stainless steel front and sides with galvanized steel back and bottom
- Large opening for scoop dispensing
- Seamless polyethylene liner with coved corners
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows



1325

60" Single Door Upright

Model	Capacity	Width	Depth	Height	Weight
1325-SS	1471lbs	60"	34"	55"	310lbs
Add 10.5" to depth for snout					



1665

60" Single Door Upright

Model	Capacity	Width	Depth	Height	Weight
1665-SS	1846lbs	60"	34"	67"	370lbs
Add 10.5" to depth for snout					

60" Single Door Upright Ice Storage

Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

1915

60" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
1915-SBB	2180lbs	60"	48"	55"	400lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



2415

60" Single Door Upright					
Model	Capacity	Width	Depth	Height	Weight
2415-SBB	2725lbs	60"	48"	67"	525lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



72" Double Door Upright Ice Storage

Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows



1455

60" Single Door Upright

Model	Capacity	Width	Depth	Height	Weight
1455-SBB	1818lbs	72"	34"	55"	470lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement.



2215

60" Single Door Upright

Model	Capacity	Width	Depth	Height	Weight
2215-SBB	2576lbs	72"	34"	75"	625lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement.

72" Double Door Upright Ice Storage

Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

2115

72" Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
2115-SBB	2639lbs	72"	48"	55"	600lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



3225

72" Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
3225-SBB	3739lbs	72"	48"	75"	785lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



72” Double Door Upright Ice Storage



Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½” foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1” NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

4325

72” Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
4325-SBB	4839lbs	72”	48”	96”	980lbs
Add 10.5” to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					

96" Double Door Upright Ice Storage

Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

2845

96" Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
2845-SBB	3557lbs	96"	48"	55"	730lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



4345

72" Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
4345-SBB	5039lbs	96"	48"	75"	1200lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					



96" Double Door Upright Ice Storage



Features

- Full stainless steel—front, back, bottom, sides and liner
- Large opening for scoop dispensing
- 1 ½" foamed in-place polyurethane insulation
- Stainless steel baffle prevents ice overflow
- Factory installed 1" NPS stainless steel drain
- Spring loaded door hinge
- Transparent view windows

5835

96" Double Door Upright					
Model	Capacity	Width	Depth	Height	Weight
5835-SBB	6522lbs	96"	48"	96"	1300lbs
Add 10.5" to depth for snout Ice makers that weigh over 800lbs may require additional reinforcement.					

Upright : Prison Package

Single Door Upright : Prison Package

Model	Capacity	Width	Depth	Height	Weight
705*	741lbs	30"	34"	58"	240lbs
905*	1023lbs	30"	34"	77"	285lbs
965*	1069lbs	36"	34"	67"	295lbs
1045*	1161lbs	48"	34"	55"	280lbs
1315*	1457lbs	48"	34"	67"	320lbs
1325*	1471lbs	60"	34"	55"	310lbs
1665*	1846lbs	60"	34"	67"	370lbs
1915	2180lbs	60"	48"	56"	400lbs
2415	2725lbs	60"	48"	68"	525lbs

Features

- Stainless steel snout with lockable door
- Stainless steel view window cover plate(s) with security screws
- Stainless steel top closure
- 6" flanged feet with 3 1/2" mounting plates



Double Door Upright : Prison Package

Model	Capacity	Width	Depth	Height	Weight
1415	1818lbs	72"	34"	56"	470lbs
2115	2639lbs	72"	48"	56"	600lbs
2215	2576lbs	72"	34"	76"	625lbs
2845	3557lbs	96"	48"	56"	730lbs
3225	3739lbs	72"	48"	76"	785lbs
4325	4839lbs	72"	48"	96"	980lbs
4345	5039lbs	96"	48"	76"	1200lbs
5835	6522lbs	96"	48"	96"	1300lbs



30" Shuttle Plus Storage

Features

- Guillotine for ice dispensing and shovel door access for ice management
- Seamless polyethylene liner with covered corners
- 1 1/2" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- One (1) 250lbs capacity Poly-cart with foot operated rear drain
- One (1) 48" UHMWP ice paddle



SPS-1

One Cart Model					
Model	Capacity	Width	Depth	Height	Weight
SPS-1	500lbs	30"	36"	66"	320lbs
Add 4.5" to depth for guillotine handle					

SPS-1-G

One Cart Model					
Model	Capacity	Width	Depth	Height	Weight
SPS-1-G	900lbs	30"	48"	80"	370lbs
Add 4.5" to depth for guillotine handle					

60" Shuttle Plus Storage

Features

- Guillotines for ice dispensing and shovel door access for ice management
- **SPS-2:** Seamless polyethylene liner with covered corners
- **SPS-2-G:** Full Stainless Steel—front, back, bottom, sides and liner
- 1 ½" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- Two (2) 250lbs capacity Poly-carts with foot operated rear drain
- One (1) 48" UHMWP ice paddle

SPS-2

60" Shuttle Plus Shuttle - Two Cart Model					
Model	Capacity	Width	Depth	Height	Weight
SPS-2	1500lbs	60"	36"	71"	530lbs
SPS-2-SL	2500lbs	60"	36"	91"	690lbs
SPS-2 Sleeve Only	1000lbs	60"	36"	20"	180lbs

Add 4.5" to depth for guillotine handle
Ice makers that weigh over 800lbs may require additional reinforcement



SPS-2-G

60" Shuttle Plus Shuttle - Two Cart Model					
Model	Capacity	Width	Depth	Height	Weight
SPS-2-G	1800lbs	60"	48"	71"	740lbs
SPS-2-G-SL	3000lbs	60"	48"	101"	960lbs
SPS-2G Sleeve Only	1200lbs	60"	48"	30"	280lbs

Add 4.5" to depth for guillotine handle
Ice makers that weigh over 800lbs may require additional reinforcement.



90" Shuttle Plus Storage

Features

- Guillotines for ice dispensing and shovel door access for ice management
- Full Stainless Steel—front, back, bottom, sides and liner
- 1 ½" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- Three (3) 250lbs capacity Poly-carts with foot operated rear drain
- One (1) 48" UHMWP ice paddle

SPS-3G Sleeve



SPS-3

60" Shuttle Plus Shuttle - Three Cart Model

Model	Capacity	Width	Depth	Height	Weight
SPS-3	2000lbs	90"	36"	71"	950lbs
SPS-3-SL	3400lbs	90"	36"	101"	1190lbs
SPS-3 Sleeve Only	1400lbs	90"	36"	30"	400lbs

Add 4.5" to depth for guillotine handle
Ice makers that weigh over 800lbs may require additional reinforcement.



SPS-3-G

60" Shuttle Plus Shuttle - Three Cart Model

Model	Capacity	Width	Depth	Height	Weight
SPS-3-G	2400lbs	90"	48"	71"	1100lbs
SPS-3-G-SL	4300lbs	90"	48"	101"	1570lbs
SPS-3G Sleeve Only	1900lbs	90"	48"	30"	500lbs

Add 4.5" to depth for guillotine handle
Ice makers that weigh over 800lbs may require additional reinforcement.

36" & 48" Ice Fill Station

Features

- Large snout opening for scoop dispensing with stainless baffle to prevent ice overflow and guillotine for ice dispensing.
- Full Stainless Steel—front, back, bottom, sides and liner
- 1 ½" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- Transparent view windows
- One (1) 250lbs capacity Poly-cart with foot operated rear drain
- Include 48" UHMWP ice paddle

36" Ice Fill Station

36" Ice Fill Station - Single Cart Model

Model	Capacity	Width	Depth	Height	Weight
IFS900-250	1069lbs	36"	34"	112"	360lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement



48" Ice Fill Station

48" Ice Fill Station - Single Cart Model

Model	Capacity	Width	Depth	Height	Weight
IFS1000-250	1161lbs	48"	34"	89"	400lbs
IFS1200-250	1457lbs	48"	34"	101"	440lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement



60" Ice Fill Station

Features

- Large snout opening for scoop dispensing with stainless baffle to prevent ice overflow and guillotine for ice dispensing.
- Full Stainless Steel—front, back, bottom, sides and liner
- 1 ½" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- Transparent view windows
- One (1) 250lbs capacity Poly-cart with foot operated rear drain
- Include 48" UHMWP ice paddle



60" Ice Fill Station

60" Ice Fill Station - Single Cart Model					
Model	Capacity	Width	Depth	Height	Weight
IFS1300-250	1471lbs	60"	34"	89"	480lbs
IFS1600-250	1846lbs	60"	34"	101"	530lbs
IFS1800-250	2180lbs	60"	48"	89"	575lbs
IFS2300-250	2725lbs	60"	48"	101"	630lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement

72" & 96" Ice Fill Station

72" Ice Fill Station

72" Ice Fill Station - Double Cart Model					
Model	Capacity	Width	Depth	Height	Weight
IFS1700-250	1818lbs	72"	34"	89"	685lbs
IFS2400-250	2576lbs	72"	34"	109"	875lbs
IFS2500-250	2639lbs	72"	48"	89"	800lbs
IFS2700-250	3739lbs	72"	48"	109"	940lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement

Features

- Large snout opening for scoop dispensing with stainless baffle to prevent ice overflow and guillotine for ice dispensing.
- Full Stainless Steel—front, back, bottom, sides and liner
- 1 ½" foamed in-place polyurethane insulation
- Factory installed stainless steel drain pan
- Welded 40" base frame
- Transparent view windows
- Two (2) 250lbs capacity Poly-carts with foot operated rear drain
- Include 48" UHMWP ice paddle



96" Ice Fill Station

96" Ice Fill Station - Single Cart Model					
Model	Capacity	Width	Depth	Height	Weight
IFS3500-250	3557lbs	96"	48"	89"	845lbs
IFS3400-250	5039lbs	96"	48"	109"	1280lbs
IFS4800-250	6522lbs	96"	48"	130"	1370lbs

Add 10.5" to depth for snout
Ice makers that weigh over 800lbs may require additional reinforcement



Ice Dispenser & Bagger

Features

- Standard Features—Foot pedal activated ice dispensing and timed agitation
- IBU Options— timed dispensing (push button dispensing in place of foot pedal), bag blower and wicket assembly
- Seamless polyethylene line with coved corners
- 1 ½” foamed in-place polyurethane insulation
- Fully welded stainless steel augers and agitators
- Adjustable bag shelf
- Factory installed drain
- Welded base frame

Not to be used with softer ice such as Flake, Nugget or Chewblet Ice



DISP-500

Ice Storage Dispenser					
Model	Capacity	Width	Depth	Height	Weight
DISP-500	647lbs	30"	36"	71"	510lbs
Electrical 110V, single phase, 15 amps, 60 hz Add Add 16.5" to depth for chain guard and bag shelf					



DISP-1000

Ice Storage Dispenser					
Model	Capacity	Width	Depth	Height	Weight
DISP-1000	1078lbs	48"	36"	72"	590lbs
Electrical 110V, single phase, 15 amps, 60 hz Add Add 16.5" to depth for chain guard and bag shelf					

Ice Dispenser & Bagger

Features

- Standard Features—Foot pedal activated ice dispensing and timed agitation
- IBU Options— timed dispensing (push button dispensing in place of foot pedal), bag blower and wicket assembly
- Full stainless steel—front, back, bottom, sides and liner
- 1 ½” foamed in-place polyurethane insulation
- Fully welded stainless steel augers and agitators
- Adjustable bag shelf
- Factory installed drain
- Welded base frame

Not to be used with softer ice such as Flake, Nugget or Chewlet Ice



DISP-2000

72" Ice Storage Dispenser					
Model	Capacity	Width	Depth	Height	Weight
DISP-2000	2254lbs	72"	48"	72"	1180lbs
Electrical 240V, hard wire, single phase, 30 amps, 60 hz Add 16.5" to depth for chain guard and bag shelf					

Ice & Water Dispenser

Features

- Standard - Foot pedal activated ice dispensing and two manual water spigot stations
- Touch-Free—Foot pedal activated ice and water dispensing
- Timed agitation
- Single water inlet connection
- Meets OSHA Requirements and Complies with California T8CCR-3395
- Seamless polyethylene liner with covered corners
- Fully welded stainless steel auger and agitator



Not to be used with softer ice such as Flake, Nugget or Chewblet Ice

DISP-IND

Ice & Water Dispenser					
Model	Capacity	Width	Depth	Height	Weight
DISP-500-IND	647lbs	30"	36"	71"	585lbs
DISP-1000-IND	1078lbs	48"	36"	71"	755lbs
Electrical 110V, single phase, 15 amps, 60 hz					
Add 23" to depth for chain guard and cooler shelf					



DISP-IND-TF

Touch-Free Ice & Water Dispenser					
Model	Capacity	Width	Depth	Height	Weight
DISP-500-IND-TF	647lbs	30"	36"	72"	585lbs
DISP-1000-IND-TF	1078lbs	48"	36"	72"	755lbs
Electrical 110V, single phase, 15 amps, 60 hz					
Add 23" to depth for chain guard and cooler shelf					

Polyethylene Carts

Features

- Polyethylene shell and fully insulated with polyurethane foam
- Center split hinged lids open to the cart sides
- Foot operated rear drain
- Handles on both ends of cart

PCC-125

22" Ice Carts					
Model	Capacity	Width	Depth	Height	Weight
PCC-125	125lbs	22"	28"	29"	75lbs
Easily maneuvered with 5" swivel casters (2 with brakes)					



PCC-250

22" Ice Carts					
Model	Capacity	Width	Depth	Height	Weight
PCC-250	250lbs	22"	34"	34"	100 lbs
Easily maneuvered 5" front swivel, and 10" rear fixed casters Comes standard with all SPS and IFS systems					



Stainless Steel Carts

Features

- Stainless Steel exterior
- Fully welded interior liner with coved corners
- Center split hinged lids open to the cart sides
- Hand style foot-operated drain

CC-250

25" Ice Carts					
Model	Capacity	Width	Depth	Height	Weight
CC-250	250lbs	24"	30"	34"	150lbs
Rugged 5" Casters, (2) fixed, (2) swivel with brake Add 4" to depth for handle					



CC-300

25" Ice Carts					
Model	Capacity	Width	Depth	Height	Weight
CC-300	300lbs	24"	36"	34"	150lbs
Rugged 5" Casters, (2) fixed, (2) swivel with brake Add 4" to depth for handle					



Accessories

Ice Shovel

Ice Shovel

37" long white plastic



Ice Scoop

Ice Scoop

82 oz Polypropylene large hand scoop



Totes



Ice Totes

For use with PCC-125, PCC-250,
CC-250, CC-300
Sturdy polyethylene construction

Ice Paddle



Ice Paddle

Heavy duty white plastic UHMWP
Available in 48" or 60" length)

Ice Bagger Kit

Features

- Stainless Steel construction
- Up to 20lb bag capacity
- Spring clip to hold bags open
- Twist tie holder
- Adjustable shelf for different size bags

4080029

Stand Alone Bagging Kit					
Model	Capacity	Width	Depth	Height	Weight
4080029	20lbs	15"	14"	31"	35lbs



ISE Advantage

1-800-346-3246

www.kloppenber.com



Specialty Applications

Commercial bakery and processing plants

- Fully welded stainless liners with covered corners
- No plastic and limited silicone
- Fully welded stainless steel carts
- High-capacity units
- Dividers for multiple styles of ice



Other Industry Applications for Kloppenberg Bins

- Athletic Departments for K-12, Colleges, and Professional Sports Teams
- Utility Companies, Oil & Gas, Construction, and Agriculture
- Golf Courses
- Marinas, General Stores, and Specialty Sporting Stores
- Government Parks & Rec
- Theme Parks and Water Parks



Ice Storage Equipment

Limited Lifetime Warranty

Kloppenbergs Products, LLC (“Kloppenbergs”) warrants to the original purchaser that it will repair or replace at its own expense and discretion the following lifetime product models.

Warranty applies to factory defect in material and/or workmanship exclusive to the polyethylene liner and stainless steel bin cabinet:

	<u>UPRIGHT MODELS</u>					
705	905	1045	1315	1325	1665	
	<u>ICE SHUTTLE SYSTEM</u>					
	SPS-1	SPS-1G		SPS-2		
	<u>ICE STORAGE DISPENSER</u>					
	DISP-500		DISP-1000			

Obligations of Kloppenberg are exclusively limited to the original purchaser / registered owner.

Lifetime warranty products must be registered with Kloppenberg within 30 days of installation.

To qualify for subject warranty, Kloppenberg Lifetime products must be installed and maintained in accordance with the procedures set forth in the product manual provided with each unit .

All decisions regarding defects in material, workmanship, accident, alteration, misuse, improper maintenance or installation shall be made by Kloppenberg and shall be final and binding upon both parties.

All claims must submitted directly to Kloppenberg.

Claims for shipments that are damaged are not covered by warranty and must be handled through the carrier.

Kloppenbergs assumes no liability for warranted poly liner or cabinet conditions that do not result in an inoperable and unusable state.

The foregoing warranty shall not apply to cosmetic damage, punctures or any outside or internal damage from resulting from foreign objects.

Kloppenbergs does not warrant incidental or consequential damages of any kind resulting in whole or in part from misuse or inadequate maintenance of the product or any part thereof.

Kloppenbergs assumes no liability for damage of any kind that is a result of alteration or used parts that are not manufactured or approved in writing by Kloppenberg.

This warranty is applicable only in the United States and Canada.

Kloppenbergs strongly advises that a pre-determination for any warranty be made by direct contact with Kloppenberg before any service has been called or completed.

Ice Storage Equipment

Manufacturer's Warranty

Obligations of Kloppenberg Products, LLC ("Kloppenber") are exclusively limited to the original purchaser / registered owner.

Products must be registered with Kloppenberg within 30 days of installation.

Kloppenber warrants that it will repair or replace at its own expense any commercial ice bin of its manufacture bearing the name Kloppenberg due to a factory defect in material and/or workmanship occurring within the first twelve (12) months from the date of installation or eighteen (18) months from date of shipment providing, the ice bin has been installed, and maintained in accordance with the procedures set forth in the product manual provided with each ice bin.

This warranty does not include parts or labor coverage for a factory component failure, or other damage resulting from:

- Failure to clean and maintain as set forth in the product manual
- Adverse operating conditions
- Drain line malfunctions
- Water content irregularities for any reason

All decisions regarding defects in material or workmanship or accident, alteration or misuse or improper maintenance or installation shall be made by Kloppenberg and shall be final and binding upon the parties. All claims must include the ice bin model number, serial number, original date of installation and customer identification.

This warranty is applicable only in the United States and Canada.

Kloppenber assumes no liability for incidental or consequential damages of any kind or for any damages resulting in whole or in part from misuse or inadequate maintenance or the product or any part thereof.

THE WARRANTY DESCRIBED SHALL BE IN LIEU OF ANY OTHER WARRANTY EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

ALL SUBJECT WARRANTY CLAIMS MUST BE PREAUTHORIZED