

EMILY E.R.S.

EMERGENCY INTEGRATED LIFESAVING LANYARD



2026

PARTS CATALOG



BEACH EMILY SPECS

Weight 26 lb

Height 14 in

Width 14 in

Length 50 in

Positive Buoyancy 150 lb

Orange Flag 4 ft

Self-righting

Custom Labels

Speed 23 + mph or 20 + kts

Perimeter Grab Rope 8 ft

Electric Motor with Cooling Jacket

Battery Operational Range of 5 miles at full power, 6 + miles at slower speeds

Three D-Ring Tow Line Attachments

Jet Pump Drive and Ceramic Bearings

Quick Change 240 WH Battery

Four Ergonomic Grab Handles

High-Grade Industrial Marine Fabric Float Cover

Fast Smart Battery Chargers

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439

BEACH EMILY KIT

HEPEMPK1000

INCLUDES

Float Cover
Battery Charger 2-Pack
Battery Module
Flag 3-Pack
Boat Stand
Lanyard 2-Pack
Manual Control Transmitter
User Manual
Tool Kit



HEPEMBT1000



HEPBACH2002



HEPBATT1000



HEPFLAG1003



HEPBOST1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN1000



HEPTLKT1000

For more information go to: www.hydronalix.com





SWIFT WATER EMILY SPECS

Weight 31 lbs
Speed 25 mph or 21 +kts
Height 14 in
Width 14 in
Length 50 in
Positive Buoyancy 150 lbs
Self-righting
Custom Labels
Orange Flag 4 ft
Night Navigation LED Lights
Perimeter Grab Rope 8 ft
Battery Operational Range of 3.5 + miles at full power, 6 + miles at slower speeds
Waterproof High Power LED Headlight
River Rescue Lifejacket Coast Guard approved
River Rescue Helmet
Holder for Optional 2-Way Radio
Jet Pump Drive and Ceramic Bearings
Quick Change 240 WH Battery
Four Ergonomic Grab Handles
Three D-ring Tow Line Attachments
High-grade, Industrial Marine Fabric Float Cover
Fast Smart Battery Chargers
Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439

SWIFT WATER EMILY 2026

SWIFT WATER EMILY KIT

HEPSWPK1000

KIT INCLUDES

SWRE Float Cover
Battery Charger 2-Pack
Battery Module
Flag 3-Pack
Boat Stand
Lanyard 2-Pack
Manual Control Transmitter
User Manual
Life Jacket
Helmet
Headlight
Tool Kit
*Holder for Optional 2-Way Radio



HEPSWBT1000



HEPBACH2002



HEPBATT1000



HEPFLAG1003



HEPBOST1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN2000



HEPLJKT1000



HEPHLMT1000



HEPHDLT1000



HEPTLKT1000

For more information go to: www.hydronalix.com





SONAR EMILY SPECS

Weight 37 lb
Length 50 in
Self-righting
1.0 KW Motor
Night Navigation Lights
On-Board Recording
Positive Buoyancy 150 lb
Speed 16 mph or 14 kts
Reversing Bucket
240 WH Battery (444 WH High Capacity Battery Optional)
Duration 2 hrs at 2 mph or 1.5 kts in calm water
Waterproof High Power LED Headlight
AutoChart Live with depth, vegetation and bottom hardness mapping
APEX MEGA Side Imaging, MEGA Down Imaging, DualBeam Plus, Optional CHIRP Digital Sonar
Side and Down Imaging Frequencies 455 kHz (420 - 520 kHz), 800 kHz (790 - 850 kHz)
MEGA 1.2 MHz (1.125 - 1.300 MHz)
2D Frequencies 175 and 225 kHz
Sonar maximum depth 1,100 ft
GPS and chart/map to assist day and night navigation
Autonomous control above 3 mph or 3 kts
Upgradeable to Cellular GSM Communications
Antennas built into Cover for low overhang operations (piers and docks)
Sonar control and imagery have a 1,600 ft range from EMILY to Tablet
Live Sonar data
ReefMaster Bathymetry Mapping Software
Jet Pump Drive and Ceramic Bearings
Ergonomic Grab Handles built into Cover
High-grade Industrial Marine Fabric Float Cover
Fast Smart Battery Chargers
Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier
Doodle Labs Radio (1 watt)
Compatible with MPU5 Military Radios
Compatible with ATAK Software
Warning Indicator Light (indicating battery and range) located on Tablet

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439

SONAR EMILY KIT

HEPSNKT1000

INCLUDES

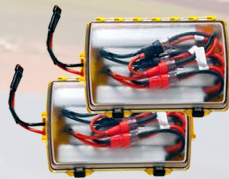
Float Cover
Battery Charger 2-Pack
Battery Module 2-Pack
2 Additional Steering Arm Boot Seals
Additional Inlet Grate 3-Pack
Additional Impeller
Flag 3-Pack
Boat Stand
Tool Kit
Lanyard 2-Pack
Manual Control Transmitter
User Manual
Canvas Airline Carry Bag
Tablet with Keyboard
Doodle Labs Radio Pair
Reversing Bucket
Digital GPS



HEPSNBT1000



HEPBACH2002



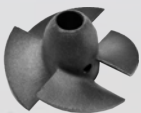
HEPBATT1002



HEPSABS1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN3000



HEPEMBG1000



HEPTBLT1000

For more information go to: www.hydronalix.com



MAN OVERBOARD EMILY SPECS

Weight 38 lbs

Height 14 in

Width 14 in

Length 50 in

Positive Buoyancy 138 lbs

Orange Flag 4 ft

Self-righting

Speed 16 mph or 14 kts

Custom Labels

Perimeter Grab Rope 8 ft

Navigation LED Lights

Electric Motor with Cooling Jacket

Waterproof high power LED Headlight

U.S. Coast Guard Approved SOLAS Reflective Strip

Duration 18 min full power run time (equal to 40 - 80 rescues at 220 yds)

Battery Operational Range of 4 + miles at full power, 7 + miles at slower speeds

Three D-Ring Tow Line Attachments

Jet Pump Drive and Ceramic Bearings

Quick Change 440 WH Battery

Four Ergonomic Grab Handles

High-Grade Industrial Marine Fabric Float Cover

Fast Smart Battery Chargers

Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

Patents Include:

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MAN OVERBOARD EMILY 2026

MAN OVERBOARD EMILY (MOBE) KIT

HEPMBKT1000

KIT INCLUDES

MOBE Float Cover
High Capacity Battery & Charger Kit*
2 Additional Steering Arm Boot Seals
Additional Inlet Grate 3-Pack
Additional Impeller
Flags 3-Pack
Boat Stand
Lanyard 2-Pack
Manual Control Transmitter
User Manual
Headlight
1800 Foot Reel
Reflective Strips
Navigation Lights (Port Red Light, Starboard Green Light)

*Battery and Charger Kit NOT Legal for Commercial Airline Travel



HEPMBBT1000



For more information go to: www.hydronalix.com





POLICE EMILY SPECS

Weight 30 lbs
Height 14 in
Width 14 in
Length 50 in
Positive Buoyancy 150 lbs
Orange Flag 4 ft
Self-righting
Speed 23 + mph or 20 + kts
Custom Labels
Perimeter Grab Rope 8 ft
LED Police Lighting Blue & White Flashing, 60 LED Strip
Speaker 600 watts with built in Amplifier, Bluetooth Audio Streaming, 80 Hz to 15 kHz
Waterproof Search Light, 3,000 Lumens with 3 brightness settings
Duration 18 min full power run time (equal to 40 - 80 rescues at 220 yds)
Battery Operational Range of 4 + miles at full power, 7 + miles at slower speeds
Three D-Ring Tow Line Attachments
Jet Pump Drive and Ceramic Bearings
Quick Change 240 WH Battery (480 WH battery optional)
Two Handles built into Cover (Four Ergonomic Grab Handles optional)
High-Grade Industrial Marine Fabric Float Cover
Fast Smart Battery Chargers
Frequency hopping 2.4 GHz Transmitter Controller with 3 watt Amplifier

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439

POLICE EMILY KIT

HEPPOKT1000

KIT INCLUDES

Police Float Cover
Battery Charger 2-Pack
Battery Module
2 Additional Steering Boot Seals
Additional Inlet Grate 3-Pack
Additional Impeller
Flag 3-Pack
Boat Stand
Tool Kit
Lanyard 2-Pack
Manual Control Transmitter
User Manual
Headlight
2VHF Radios with 600 Watt Speaker
Programmable Navigation Lights



HEPPOBT1000



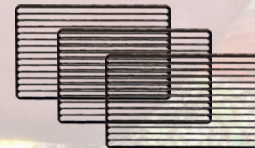
HEPBACH2002



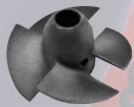
HEPBATT1000



HEPSABS1000



HEPINGR1003



HEPIMPE1000



HEPFLAG1003



HEPBOST1000



HEPTLKT1000



HEPFLAN1002



HEPTMBG2000



HEPUSMN6000



HEPHDLT1000



HEPVHFR1002

For more information go to: www.hydronalix.com



Battery Module
HEPBATT1000



Battery Module 2-Pack
HEPBATT1002



**High Capacity Battery Module
& Charger Kit**
***NOT Legal for Commercial Airline Travel**
HEPBCKT3000



Battery Module Case
HEPBTC1000



Battery Capacity Checker
HEPBTCC1000



Battery Charger 2-Pack
HEPBACH2002



Battery Charger 4-Pack
HEPBACH2004



Battery Strap Restraining Mounts
HEPBTMT1002



Battery Straps
HEPBTST1002



Bilge Bulb
HEPBBLB1000



Boat Stand
HEPBOST1000



Canvas Airline Carry Bag
HEPEMBG1000



Stainless Steel Drive Shaft
HEPSSDS1000



**Ceramic Drive Bearings
(Big) Front**
HEPCDRB1000



**Ceramic Drive Bearings
(Small) Rear**
HEPCDRB1100



Cooling Hose Nozzles
HEPCHNZ1002

Patents Include:

US #882555, Korea #10-1482486, Mexico #339942, Indonesia #W-00201304834, Hong Kong (Taiwan/China) #14108254.8, Australia #2012239947, European Union (30+ countries) #269436, Greece 3095439

2026 PARTS



E Float Lanyards 3-Pack
HEPFLAN1003



EMILY Electric Motor
HEPEELM1000



Exit Nozzle
HEPEXNZ1000



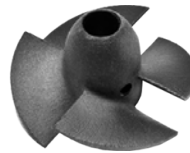
Flag 3-Pack
HEPFLAG1003



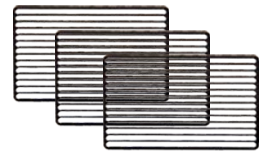
Hatch Cover 2-Pack
HEPHTCV1002



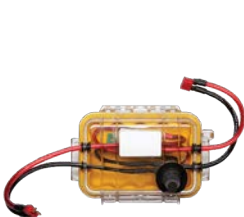
Headlight
HEPHDLT1000



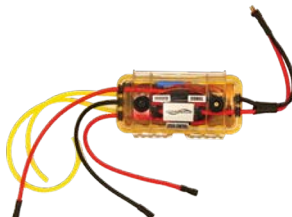
Impeller
HEPIMPE1000



Inlet Grate 3-Pack
HEPINGR1003



Magnetic Power Switch Box
HEPMPSB1000



Motor Control Module
HEPMTCM1000



Motor Drive Shaft Coupler
HEPMDSC3000



Motor Isolation Mounts 4-Pack
HEPMIMT1004



Rescue Reel 800 ft
HEPREEL0800



Rescue Reel 1800 ft
HEPREEL1800



**Ruggedized Ground Station
Tablet w/ Keyboard**
HEPRGST1000



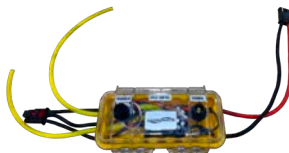
Signal Wire
HEPSIGW1000

For more information go to: www.hydronalix.com





Spare Parts
HEPSPKT1000



EMILY Speed Controllers
HEPMTCM1010



Stainless Steel Fastener Kit
HEPFAKT1000



Steering Arm Assembly
HEPSTAA1000



Steering Arm Boot Seals
HEPSABS1000



Steering Nozzle
HEPSTNZ1000



Steering Servo
HEPSTSV1000



Steering Servo Mount
HEPSTMT1000



EMILY Tool Kit
HEPTLKT1000



Transom Cable
HEPTRCB1000



Rear Transom Cleat 2-Pack
HEPRTCT1002



Waterproof Spray
HEPWASP1000



Zip Ties
HEPZIPT1000

TRAINING PROGRAMS 2026

Custom Training Packages Available



For more information go to: www.hydranalix.com



2026



Founded in 2009, Hydronalix has become a recognized leader and international symbol in robotics innovation for beach and flood rescue with our successful Patented Emergency Integrated Lifesaving Lanyard (EMILY) product line.

We have 11,000 square feet of engineering, office and manufacturing space in Sahuarita, AZ. Company sales are both domestic and overseas with export distribution throughout Africa, Asia, Europe, the Middle East and the Americas.



STTR Funded Company

Items in this catalog have been developed in part under the assistance of multiple U.S. Federal SBIR/STTR contracts listed below:

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N6833518F0001

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