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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE TRADEMARK TRIAL AND APPEAL BOARD

Proceeding	91207836
Party	Plaintiff Volvo Trademark Holding AB
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Date	05/11/2016
Attachments	Deposition of M. Dempe Exhibit 31.pdf(3373569 bytes) Deposition of M. Dempe Exhibit 32.pdf(1548343 bytes) Deposition of M. Dempe Exhibit 33.pdf(1775697 bytes) Deposition of M. Dempe Exhibit 34.pdf(1684117 bytes) Deposition of M. Dempe Exhibit 35.pdf(1800255 bytes) Deposition of M. Dempe Exhibit 36 part 1.pdf(4341824 bytes) Deposition of M. Dempe Exhibit 36 part 2.pdf(5636029 bytes) Deposition of M. Dempe Exhibit 37.pdf(4995059 bytes) Deposition of M. Dempe Exhibit 38.pdf(5799967 bytes) Deposition of M. Dempe Exhibit 39.pdf(2819439 bytes) Deposition of M. Dempe Exhibit 40.pdf(3083126 bytes)

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Category: Games

Updated: Nov 29, 2012

Version: 1.0.1

Size: 61.8 MB

Language: English

Seller: Volvo Group North America, LLC

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Rated 4

Compatibility: Requires iOS 5.1 or later. Compatible with iPad.

Description

Conquer the elements of wind, heat and ice. Get the most out of every drop!

Every drop counts. Control one of the world's most essential substances that propels the machines we drive by taking advantage of the elements around you. Fueldrop features challenging physics-based gameplay and hours of replay value. Each level requires logic, skill and drive to solve.

Fueldrop by Volvo Trucks features:

- Three elemental worlds with 12 challenging levels!
- The constant threat of wind, heat and ice!
- Hidden achievements ranging from simple to skillful!
- Logic puzzles that test your determination with sudden twists and turns!

Volvo Trucks North America Web Site • Fueldrop by Volvo Trucks Support

What's New in Version 1.0.1

General game updates

Customer Ratings

We have not received enough ratings to display an average for the current version of this application.

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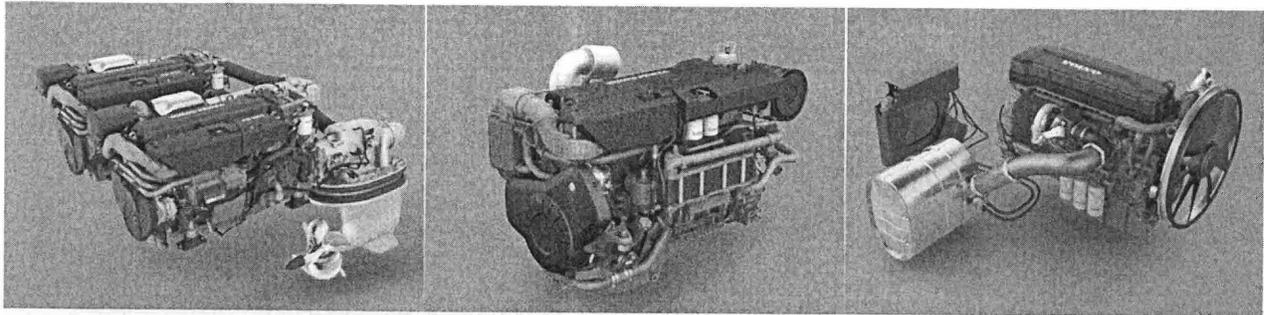


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VOLVO PENTA

**VOLVO
PENTA**



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- »Volvo Penta dealer locator
- »Volvo Group

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- »United Kingdom

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- »Brazil
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Industrial engines

- »Chinese
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Papay Adventurers journey to the Arctic Circle with the support of Volvo Penta

»In July a trio from Papa Westray in Scotland's Orkney Islands journeyed to the Arctic Circle in a Volvo Penta equipped and built...



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2014-10-22

Volvo Penta Launches 24/7/365 Technical Support

2014-10-07

Volvo Penta Supplies Innovative Propulsion System for New Fast Response Boat

2014-09-23

Off to the races

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Volvo Penta IPS at work

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»Volvo Penta oil analysis helps you stay one step ahead and avoid expensive repairs & unplanned downtime.



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»Created just for Volvo Penta IPS owners, this online community will keep you in the loop with exclusive information and provide you with a forum to share your experiences with other owners and Volvo Penta.



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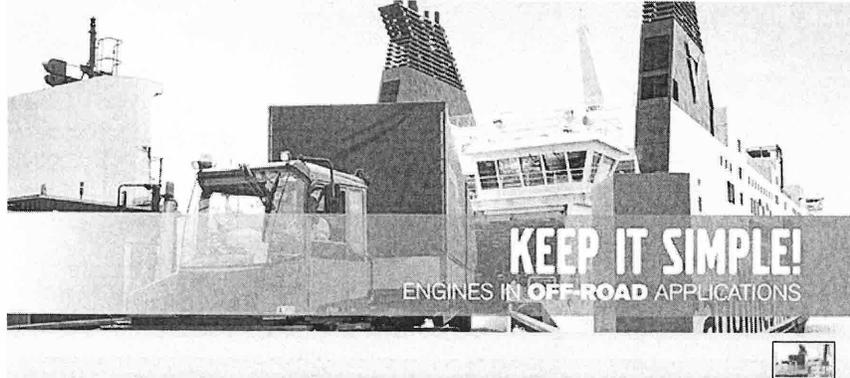
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About Volvo Penta

Volvo Penta offers high-technological products, as well as global support for industrial applications such as diesel-operated gensets, cranes and container handlers etc.

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Volvo Penta News

2014-09-23

Off to the races

»It's one of the most glamorous sporting events in the world — and Volvo Penta was in the middle of it, powering the Singapore Grand Prix and making sure the lights stayed on for the entire 61-lap, 308-kilometer race.



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2014-08-06

A Golden Opportunity for Volvo Penta

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Total cost of ownership

»When investing in a power system, focusing solely on initial cost does not always produce the best option. A piece of equipment with a lower purchase price can 'bleed you dry' due to high maintenance costs, limited support or higher fuel consumption.



Volvo Penta on You Tube

»Learn more about Volvo Penta industrial by watching our film on You Tube.



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NEW

THE NEW GLASS COCKPIT SYSTEM
ONE LOOK. ONE TOUCH.
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Papay Adventurers journey to the Arctic Circle with the support of Volvo Penta

»In July a trio from Papa Westray in Scotland's Orkney Islands journeyed to the Arctic Circle in a Volvo Penta-equipped rigid-hulled inflatable boat to benefit Woolverstone Wish.



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Volvo Penta First to Move into New Volvo Group Central Parts Distribution Center

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Volvo Penta Launches 24/7/365 Technical Support

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Glass cockpit system



The unique Glass Cockpit system means a clean, easy-to-use dashboard – and more importantly – enhanced overview and control of both engine and navigation in one place.

Integrated with the EVC system, the Glass Cockpit gathers all driver information and displays it in one spot. The easy-to-handle, pinch-to-zoom displays give you instant control. Six displays in two versions are available in different sizes from 8 to 19".

One look. One touch. One system.

When you power up your boat all screens light up simultaneously, in a car-like manner. All settings that you control, including instrument dimming, are carried out concurrently at the helm and the flybridge. With the Glass Cockpit system you get a common, ergonomic design – and interface – for the whole dashboard, with push-buttons on the controls and touch-buttons on the screens.

Auto guidance

This unique feature searches through all relevant charts to create a route you can follow – and avoid shallow water, buoys and other obstacles. Coupled with the autopilot, it not only shows the way, it takes you there!

Total integration

Full EVC functionality means that you monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.

Winner of the DAME design award

The Volvo Penta Glass Cockpit system has been given the prestigious DAME Design Award in the 'Marine Electronics and Marine Related Software' category.



MFD 8008 (8")

An 8-inch, multi-touch, pinch-to-zoom, multi-function display. [Read more](#)



MFD 8012 (12")

A 12-inch, multi-touch, pinch-to-zoom, multi-function display. [Read more](#)



MFD 8015 (15")

A 15-inch, multi-touch, pinch-to-zoom, multi-function display. [Read more](#)



Monitor 150 (15")

An ultra-thin, multi-touch, pinch-to-zoom monitor to use with the process box 8500 and 8530. For larger vessels with more helm space. [Read more](#)



Monitor 170 (17")

An ultra-thin, multi-touch, pinch-to-zoom monitor to use with the process box 8500 and 8530. For larger vessels with more helm space. [Read more](#)



Monitor 190 (19")

An ultra-thin, multi-touch, pinch-to-zoom monitor to use with the process box 8500 and 8530. For larger vessels with more helm space. [Read more](#)



Processor box 8500 and 8530

To be used with the three monitors above. Two independent, detached processor boxes allows for better system cooling, larger screen size capability and easier installation. [Read more](#)



Remote input device

Provides full remote control of displays and monitors. [Read more](#)



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MFD 8008 (8")

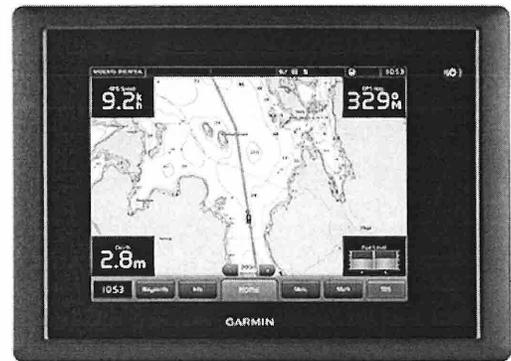
The Volvo Penta Glass Cockpit system brings an elegant and customized appearance that transforms your vessel's bridge into a glass helm.

The MFD-series displays contain three sizes (8, 12 and 15"). All three MFDs have integrated processor systems and cooling.

Features in a nutshell

- Pinch-to-zoom and other multi-touch controls.
- Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more.
- Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- The MFDs have pre-loaded global base map
- Low profile flush mount or smooth flat mount for a glass helm look. All units are developed and manufactured by Garmin.

Dimensions, W x H x D	26.89 x 19.39 x 11.56 cm (10 9/16" x 7 5/8" x 4 9/16")
Display size, W x H	17.1 x 13 cm, 21.3 cm diagonal (6.8" x 5.1", 8.4" diagonal)
Display resolution, W x H	800 x 600 pixels
Display type	Touchscreen SVGA display (anti-glare finish)
Weight	5.1 kg (11.3 lb)
Battery	None
Power consumption	1.3A at 12V; 0.7A at 24V
Waterproof	Yes (IPX7)
High-sensitivity receiver	Yes
Antenna	GPS19x Smart Antenna
NMEA input/output	4 NMEA 0183 inputs, 2 NMEA 0183 outputs, 1 NMEA 2000 port
Garmin Marine Network™, radar and sonar compatible	Yes
Supports AIS (tracks target ships' position)	Yes
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes



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MFD 8012 (12")

The Volvo Penta Glass Cockpit system brings an elegant and customized appearance that transforms your vessel's bridge into a glass helm.

The MFD-series displays contain three sizes (8, 12 and 15"). All three MFDs have integrated processor systems and cooling.

Features in a nutshell

- Pinch-to-zoom and other multi-touch controls.
- Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more.
- Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- The MFDs have pre-loaded global base map
- Low profile flush mount or smooth flat mount for a glass helm look. All units are developed and manufactured by Garmin.

Dimensions, W x H x D	33.2 cm x 24.7 cm x 9.6 cm (13.1 in x 9.7 in x 3.8 in)
Display size, W x H	24.6 x 18.4 cm, 30.7 cm diagonal (9.7" x 7.3", 12.1" diagonal)
Display resolution, W x H	1,024 x 768 pixels
Display type	Touchscreen SVGA display (anti-glare finish)
Weight	5.2 kg (11.4 lb)
Battery	None
Power consumption	1.6A at 12V; 0.8A at 24V
Waterproof	Yes (IPX7)
High-sensitivity receiver	Yes
Antenna	GPS19x Smart Antenna
NMEA input/output	4 NMEA 0183 inputs, 2 NMEA 0183 outputs, 1 NMEA 2000 port
Garmin Marine Network™, radar and sonar compatible	Yes
Supports AIS (tracks target ships' position)	Yes
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes



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MFD 8015 (15")

The Volvo Penta Glass Cockpit system brings an elegant and customized appearance that transforms your vessel's bridge into a glass helm.

The MFD-series displays contain three sizes (8, 12 and 15"). All three MFDs have integrated processor systems and cooling.

Features in a nutshell

- Pinch-to-zoom and other multi-touch controls.
- Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more.
- Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- The MFDs have pre-loaded global base map
- Low profile flush mount or smooth flat mount for a glass helm look. All units are developed and manufactured by Garmin.

Dimensions, W x H x D	40.2 x 30.6 x 9.4 cm (15 7/8" x 12 1/8" x 3 11/16")
Display size, W x H	30.5 x 22.9 cm, 38.1 cm diagonal (12" x 9", 15" diagonal)
Display resolution, W x H	1,024 x 768 pixels
Display type	Touchscreen SVGA display (anti-glare finish)
Weight	7.62 kg (16.8 lb)
Battery	None
Power consumption	2.5A at 12V; 1.3A at 24V
Waterproof	Yes (IPX7)
High-sensitivity receiver	Yes
Antenna	GPS19x Smart Antenna
NMEA input/output	4 NMEA 0183 inputs, 2 NMEA 0183 outputs, 1 NMEA 2000 port
Garmin Marine Network™, radar and sonar compatible	Yes
Supports AIS (tracks target ships' position)	Yes
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes



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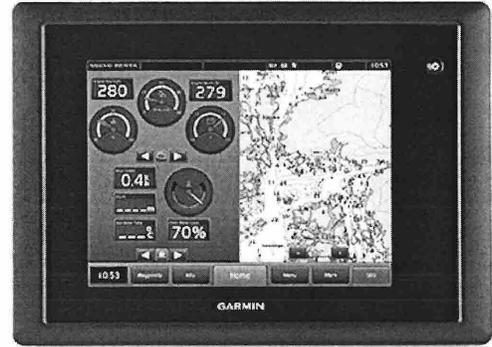
Monitor 150 (15")

This ultra-thin 15" XGA anti-glare touchscreen can be installed where the bulkier MFDs won't fit. It's connected to the processor box 8500 or processor box 8530 that holds both cooling and processor systems.

Altogether, it creates the Volvo Penta Glass Cockpit system that transforms your vessel's bridge into a glass helm. Everything you need is at the tip of your finger, all on the screen.

Features in a nutshell (accompanied with processor box 8500 or 8530)

- Pinch-to-zoom and other multi-touch controls.
- Anti-glare and bright LED backlighting makes this display clearly viewable in bright sunlight; auto-dimming provides outstanding visibility at night.
- Full 1080p video input. Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more. Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- Low-profile flush mount, or the exclusive flat-mount glass helm option.
- All units are developed and manufactured by Garmin.



Dimensions, W x H x D	14.7" x 12.9" x 2.9" (37.5 cm x 32.6 cm x 7.3 cm)
Display resolution, W x H	1024 x 768 pixels
Display type	Touchscreen XGA display (anti-glare finish)
Weight	4.3 kg (9.6 lb)
Power consumption	2.5A at 12V
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes

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Monitor 170 (17")

This ultra-thin 17" SXGA anti-glare touchscreen can be installed where the bulkier MFDs won't fit. It's connected to the processor box 8500 or processor box 8530 that holds both cooling and processor systems.

Altogether, it creates the Volvo Penta Glass Cockpit system that transforms your vessel's bridge into a glass helm. Everything you need is at the tip of your finger, all on the screen.

Features in a nutshell (accompanied with processor box 8500 or 8530)

- Pinch-to-zoom and other multi-touch controls.
- Anti-glare and bright LED backlighting makes this display clearly viewable in bright sunlight; auto-dimming provides outstanding visibility at night.
- Full 1080p video input. Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more. Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- Low-profile flush mount, or the exclusive flat-mount glass helm option.
- All units are developed and manufactured by Garmin.



Dimensions, W x H x D	16.1" x 14.5" x 2.9" (41 cm x 37 cm x 7.5 cm)
Display resolution, W x H	1,280 x 1,024 pixels
Display type	Touchscreen SXGA display (anti-glare finish)
Weight	5.0 kg (11 lb)
Power consumption	5A at 12V
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes

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Monitor 190 (19")

This ultra-thin 19" SXGA anti-glare touchscreen can be installed where the bulkier MFDs won't fit. It's connected to the processor box 8500 or processor box 8530 that holds both cooling and processor systems.

Altogether, it creates the Volvo Penta Glass Cockpit system that transforms your vessel's bridge into a glass helm. Everything you need is at the tip of your finger, all on the screen.

Features in a nutshell (accompanied with processor box 8500 or 8530)

- Pinch-to-zoom and other multi-touch controls.
- Anti-glare and bright LED backlighting makes this display clearly viewable in bright sunlight; auto-dimming provides outstanding visibility at night.
- Full 1080p video input. Integrates almost everything onboard; maps, various sonar technologies, integrated autopilot, connectivity, apps, engine data and much more. Full EVC functionality: monitor functions like Dynamic Positioning System, Interceptors and Autopilot through the displays.
- SmartMode control allows you to switch all monitors in sync from one mode to another without manually switching each monitor separately. Place the information you need right where you want it.
- The system updates your position and heading 10 times per second.
- Low-profile flush mount, or the exclusive flat-mount glass helm option.
- All units are developed and manufactured by Garmin.



Dimensions, W x H x D	17.9" x 15.7" x 3.2" (45.4 cm x 39.9 cm x 8.1 cm)
Display resolution, W x H	1,280 x 1,024 pixels
Display type	Touchscreen SXGA display (anti-glare finish)
Weight	5.7 kg (12.6 lb)
Power consumption	10A at 12V
Supports DSC (displays position data from DSC capable VHF radio)	Yes
Audible alarms	Yes
Tide tables, sun and moon information	Yes
3-D map view	Yes (with Optional BlueChart g2 Card)
Auto Guidance	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes

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Processor box

Glass Cockpit system: Processor box 8500 and 8530

The Processor boxes provide a powerfully simple, fully-integrated helm that gives your boat a beautiful glass helm look.

The Processor box allows for easy installation wherever you choose. Having an independent, detached black box allows for better system cooling and larger screen size.

Comes in two versions

With Processor box 8500, or Processor box 8530, enjoy pinch-to-zoom on high resolution crystal clear marine charts, and SmartMode using Remote input device as control, when accompanied by the 15", 17" or 19" touchscreen monitor. All three monitors can support 1,080p HD resolution. The Processor box outputs either XGA (1,024x768), or SXGA (1,280x1,024) depending on the accompanied monitor size.

Loaded with charts

- The Processor box 8500 has a pre-loaded base map.
- The Processor box 8530 has pre-loaded US Bluechart® g2 detailed map.



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Remote input device

This remote control provides you with full control of all units in the Volvo Penta Glass Cockpit system. Steering wheel and joystick controls allow navigation through menus and screens. And you navigate seamlessly between monitors in a station.

Control one or more monitors with just one unit. Multiple units can be used per station. The Remote input device can be integrated into a captain's chair for a low-profile controlling solution.



EXHIBIT 37

GLASS COCKPIT

NEW!

One look. One touch. One system.

Finally all functions can be integrated into one or multiple touch screens without having to install several other instruments and components. For you, it means a clean and easy-to-use dashboard with enhanced overview and control. Integrated with the EVC system, the Volvo Penta Glass Cockpit gathers all navigation and engine information in one spot.



THE INTUITIVE, PINCH-TO-ZOOM Glass Cockpit touchscreens puts everything you need at your fingertips. Available from 8 to 19 inches.



VOLVO PENTA GLASS COCKPIT takes onboard integration to a whole new level. It allows you to monitor and control all driver information, including navigation, engine data, warnings, alarms and EVC Easy boating features, in one or more customisable, high-tech, touchscreens.



Watch the movie

VOLVO PENTA

GLASS COCKPIT

CUSTOMISE LAYOUTS

Fully customisable layouts, data and gauges allow you to place the information you need to see, right where you want it. Choose between full, half or quarter view, from a variety of data overlays and how it should be distributed between multiple displays.

SMART MODE

You can store layout modes for different needs like "planing" or "docking". Smart mode allows you to switch all screens at a helm in sync from one mode to another, without manually switching each screen separately.

LINK LAYOUTS TO THE JOYSTICK AND CONTROL

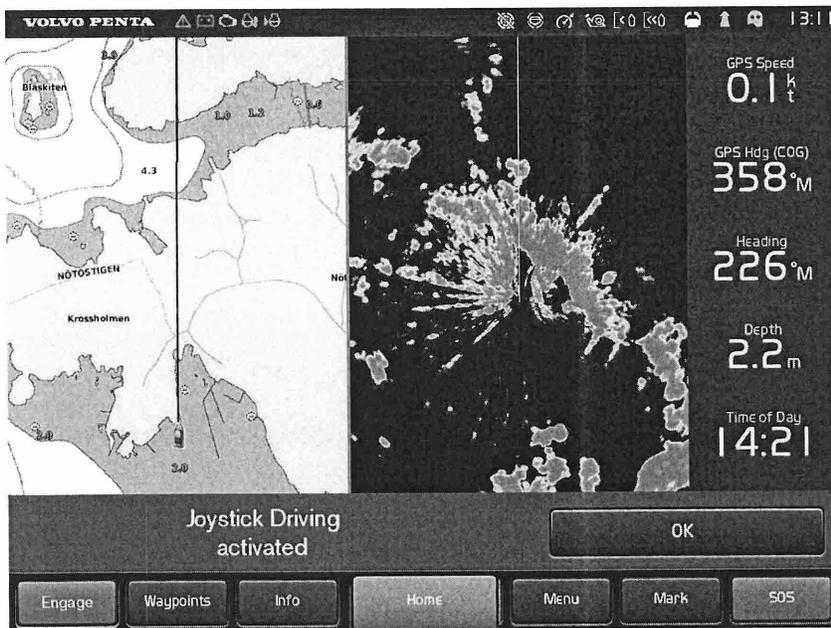
You can link layouts to buttons on the engine control and joystick. When you press an assigned button, all displays switch in sync to the linked layout. For example, when you press the "docking" button on the joystick the layout can change and show a docking camera view.



Full, half or quarter view. Fully customizable layouts allow you to place the information you need to see right where you want it.



Change layout mode with a push of a button on the joystick.



TOTAL INTEGRATION PROVIDES FULL CONTROL

All engine data, warnings, alarms and EVC Easy boating options such as Autopilot and Joystick driving are monitored and controlled through the Glass Cockpit system. It makes it easier for the driver to focus on what's important at the moment instead of looking at several different displays.



All active functions and alarms are displayed with symbols in the status bar at the top of the screen.

The driver will be notified by sound and pop-up message when functions are activated or de-activated or if any alarm needs attention.

GLASS COCKPIT

"CAR-LIKE" MANNER

With the total EVC integration, all screens light up simultaneously, in a "car-like" manner when you power up the boat. All settings, including instrument dimming, are carried out concurrently at the helm and the fly bridge. You only need to set-up once.

AUTO GUIDANCE

This optional feature searches through all relevant charts to create a visual route you can follow – and avoid shallow water, buoys and other charted obstacles. Linked with the Volvo Penta autopilot, it will not only show you the way, but also take you there!

10 HZ GPS ANTENNA

A smart GPS19x antenna with 10 Hz GPS/GLONASS receiver updates position and heading 10 times per second to display a more fluid vessel movement and dramatically improves your ability to accurately mark and navigate to your waypoints.

ANTI-GLARE AND LED

Anti-glare and LED backlighting makes the Volvo Penta Glass Cockpit screens easy to view in bright sunlight. And auto-dimming provides outstanding visibility at night.

REMOTE CONTROL

An optional remote control can be integrated as a keyboard in the driver's chair or the dashboard for an ergonomic and low-profile controlling solution. This also allows a seamless navigation between multiple displays at a helmstation.



Pinch-to-zoom your chart, radar or sonar screens. With Glass Cockpit you can integrate almost everything you need.

NAVIGATION, COMMUNICATION AND MULTIMEDIA

Volvo Penta Glass Cockpit gives you access to the broad range of Garmin Marine system components and accessories. Almost everything you need can be integrated: radar, sonar, VHS, connectivity, apps and much more. All available at your fingertips, on your Glass Cockpit touchscreens.

Samples of compatible components and accessories

Garmin radar compatible	Yes
Garmin sonar compatible	Yes
Garmin Marine Network™ compatible	Yes
Supports AIS	Yes
Supports DSC	Yes
BlueChart g2/BlueChart g2 Vision	Yes
3-D map view	Yes
Auto Guidance	Yes
Tide tables	Yes
Sun and moon information	Yes
XM WX Weather & Radio for U.S. & Canada compatible	Yes

For advice and information regarding compatible charts, including BlueChart g2 Vision with Auto Guidance, software updates, compatible sonar and radar systems, communication systems and autopilot components, please contact your local authorised Garmin distributor and dealer.



SD CARD READER

The card reader provides convenient access to two SD memory card slots for charts and software updates and data back-up. Multiple card readers can be installed. Waterproof magnetic door.



Remote Control



SD Card Reader

GLASS COCKPIT

FEATURES AND BENEFITS:

- Fully integrated with the EVC system
- No additional interface
- Integrates EVC Easy boating options
- Gathers navigation and engine data
- Enhanced overview and control
- Customizable layouts
- Link layouts to the joystick and control
- Intuitive and easy to use
- Status bar with active functions and alarms
- Pop-up text messages
- Auto Guidance – takes you to your destination
- Switch all screens at a helm in sync
- Pinch-to-zoom screens
- Updates position and heading 10 times/sec
- Waterproof according to standard IPX7
- Plug and play system with Garmin components and accessories

FLEXIBLE SYSTEM

The Glass Cockpit system opens up a new world of possibilities for dashboard designs and is flexible enough to install in any boat type. Choose between Multifunction displays (MFD) with integrated processor or slim designed monitors with accompanying black box processor that can be installed in a separate location. All screens can be used alone or in combination of up to three units per helm station. For further flexibility it is possible to mix sizes and combine MDFs and monitors on the same network.

REQUIREMENTS:

- From EVC-E2
- Glass Cockpit are only sold as a complete system together with Volvo Penta engines.

The screens can be installed with either a low-profile flush mount or custom flat mount. The multifunction displays can also be fitted with bail mounting.



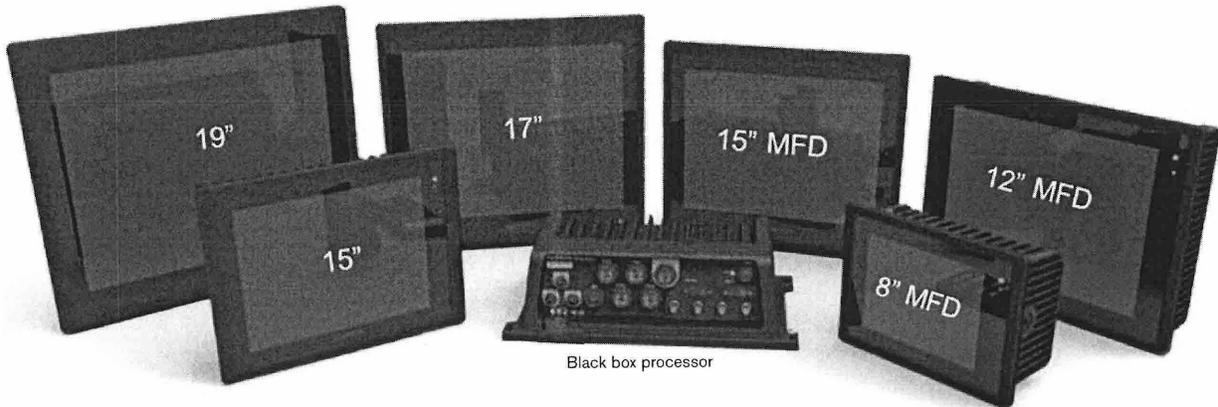
Visit Volvo Penta
Glass Cockpit
website

MULTIFUNCTION DISPLAYS (MFD)

Size	Model
8"	MFD 8008
12"	MFD 8012
15"	MFD 8015

MONITORS

Size	Model
15"	Monitor 150
17"	Monitor 170
19"	Monitor 190



Black box processor

The Volvo Penta Glass Cockpit range – Choose between 8", 12" or 15" multifunction displays (MFD) with integrated processor or slim designed 15", 17" and 19" monitors with accompanying black box processor.

Please contact your local Volvo Penta dealer for further information. Please note that products illustrated may differ from production models. Not all models and accessories are available in all markets, and standard equipment may vary between different markets. Every effort has been made to ensure that facts and figures are correct at the time of publication. However, Volvo Penta reserves the right to make changes without prior notice at any time.

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Engine monitoring displays

2.5" display

A black and white display with easy push-button navigation. Can show a large amount of different data from one engine, including optional trip computer information. [Read more](#)



4" display

Designed to match EVC (Electronic Vessel Control) diesel and gasoline engines. [Read more](#)



4" colour display

Shows all available information for one or two engines and you get the information you choose in one, easy-to-read screen. [Read more](#)



7" colour display

The top-of-the-line in modern boat instrumentation. It can show data from up to three engines and trip computer information. This display also has a video input. [Read more](#)



NMEA 2000 interface

NMEA is the standard of marine electronics. The software, sensors and chart plotter you choose to install will determine the data that can be received and displayed. [Read more](#)



Autopilot interface

Engage, set your course and relax. Together with the Joystick Driving feature, the Autopilot offers a new and much more comfortable way of maneuvering your boat. [Read more](#)

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Aquamatic sterndrive

Inboard diesel

Sailboat

2.5" display

The 2.5" black/white display has easy push-button navigation and can show a large amount of different data from one engine, including optional trip computer information. Intuitive navigation and the "My View" option make it very easy to customize information. Optional sensors can provide more data.

Easy to navigate

The 2.5" display can be top or flush mounted and is very easy to navigate with backlit push buttons.

The following data is available in the 2.5" display. The software and sensors you choose to install will determine what data can be received and displayed.

- RPM
- Engine hours
- Coolant temperature
- Voltage
- Turbo pressure
- Oil pressure
- Warnings and alarms
- Trim position
- Depth*
- Surface water temperature*
- Speed through water*
- Water tank level*
- Fuel tank level*

* Requires extra sensor.

Trip computer software

As an extra option, in addition to the 2.5" display, this software will make trip computer functions available for your engine. The additional data available is:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/hour)
- Fuel economy (volume/distance)*
- Average fuel consumption
- Trip distance
- Estimated remaining distance*
- Average fuel rate
- Trip time

* Requires extra sensor



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Aquamatic sterndrive

Inboard diesel

Sailboat

4" display

The Volvo Penta line of instruments is designed to match EVC (Electronic Vessel Control) diesel and gasoline engines. The fact that the engine, the EVC system and the instruments have been developed together means that a new level of precision, accuracy and reliability has been achieved. With Volvo Penta multi information displays, like the 4" display, you get all the information you need in one place.

The following data are available on the 4" display. The software and sensors you choose to install will determine what data can be received and displayed.

- RPM
- Engine hours
- Coolant temperature
- Voltage
- Turbo pressure
- Oil pressure
- Warnings and alarms
- Trim position
- Depth*
- Surface water temperature*
- Speed through water*
- Water tank level*
- Fuel tank level*
- Rudder position*

* Requires extra sensor.

**Trip computer software**

As an extra option, in addition to the 4" display, this software will make trip computer functions available for your engine. The additional data available are:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/hour)
- Fuel economy (volume/distance)*
- Average fuel consumption
- Trip distance
- Estimated remaining distance*
- Average fuel rate
- Trip time

* Requires extra sensor

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4" colour display

The new 4" full-colour display is easy to read with custom screens. It shows all available information for one or two engines and you get the information you choose in one, easy-to-read screen. Essential information like fuel economy, distance and time to empty plus fuel level – have it your way in the easily adaptable "My view".

All information in one place The Volvo Penta line of instruments is designed to match EVC (Electronic Vessel Control) diesel and gasoline engines. The fact that the engine, the EVC system and the instruments have been developed together means that a new level of precision, accuracy and reliability has been achieved. With Volvo Penta multi information displays, like the 4" display, you get all the information you need in one place.

The following data are available in the 4" display. The software and sensors you choose to install will determine what data can be received and displayed.

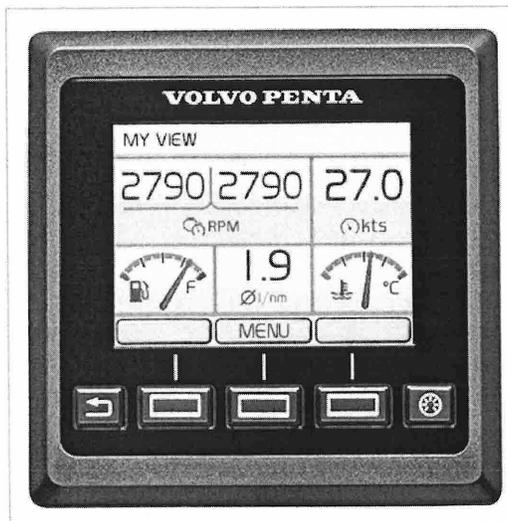
- RPM
- Engine hours
- Coolant temperature
- Voltage
- Turbo pressure
- Oil pressure
- Warnings and alarms
- Trim position
- Depth*
- Surface water temperature*
- Speed through water*
- Water tank level*
- Fuel tank level*
- Rudder position*

* Requires extra sensor.

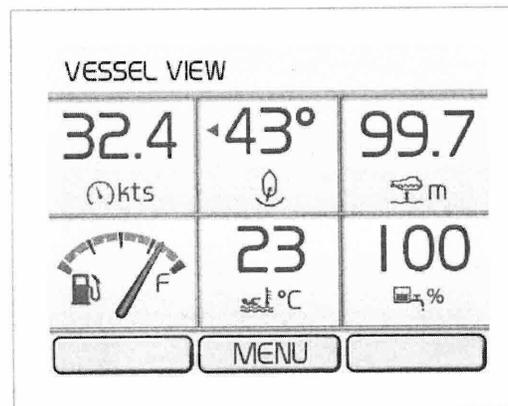
Trip computer software As an extra option, in addition to the 4" display, this software will make trip computer functions available for your engine. The additional data available are:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/hour)
- Fuel economy (volume/distance)*
- Average fuel consumption
- Trip distance
- Estimated remaining distance*
- Average fuel rate
- Trip time

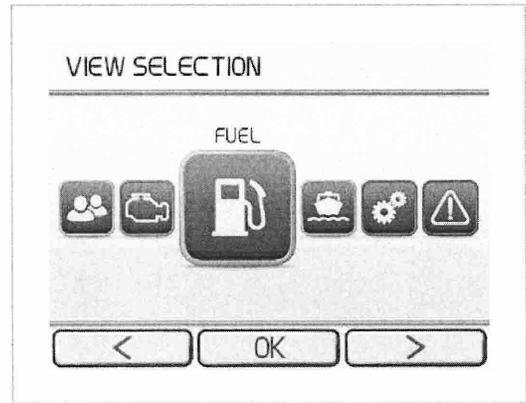
* Requires extra sensor



The 4" full-colour display is new this year. It shows all available information for one or two engines.



You get the information you choose in one, easy-to-read, screen.



Fuel economy, distance and time to empty plus fuel level. Essential information en route.

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Aquamatic sterndrive

Inboard diesel

Sailboat

7" colour display

The 7" colour display is top-of-the-line in modern boat instrumentation. It can show data from up to three engines, trip computer information and also has a video input. You can have cameras in the engine room or for better stern visibility, etc. Intuitive navigation and the "My View" option make it very easy to customize information.

All information in one place

The Volvo Penta line of instruments is designed to match EVC (Electronic Vessel Control) diesel and gasoline engines. The fact that the engine, the EVC system and the instruments have been developed together means that a new level of precision, accuracy and reliability has been achieved. With Volvo Penta multi information displays, like the 7" display, you get all the information you need in one place.

The following data are available in the 7" display. The software and sensors you choose to install will determine what data can be received and displayed.

- RPM
- Engine hours
- Coolant temperature
- Voltage
- Turbo pressure
- Oil pressure
- Warnings and alarms
- Trim position
- Depth*
- Surface water temperature*
- Speed through water*
- Water tank level*
- Fuel tank level*
- Rudder position*
- Video camera**

* Requires extra sensor.

** Requires separate camera.

Trip computer software

As an extra option, in addition to the 7" display, this software will make trip computer functions available for your engine. The additional data available are:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/hour)
- Fuel economy (volume/distance)*
- Average fuel consumption
- Trip distance
- Estimated remaining distance*
- Average fuel rate
- Trip time

* Requires extra sensor

Dynamic Positioning System

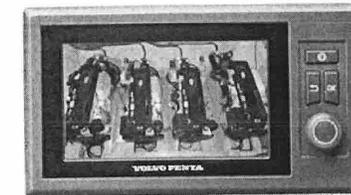
The 7" display is required when installing the Dynamic Positioning System for Volvo Penta IPS.



Easy-to-navigate menu leads you quickly to the information that you want.



The fuel economy view gives you detailed information on your boat's current and average fuel economy.



With a camera connected, you can monitor the engine room or get better stern visibility for increased safety.

EXHIBIT 39

VOLVO PENTA EVC SYSTEM

TRIP COMPUTER

Trip Computer option for the tachometer and the EVC display



All the information in one place

The electronic revolution of Volvo Penta engines now gives you the opportunity to upgrade your EVC governed boat and make boating safer, easier and more fun. With a Trip Computer, just as in a car, you can now have advanced functions in your boat. Trip distance, average speed, instant fuel consumption and remaining fuel range to help you plan your driving. With new software you can add features that give a new dimension to manoeuvring and boat handling.

Trip Computer Software

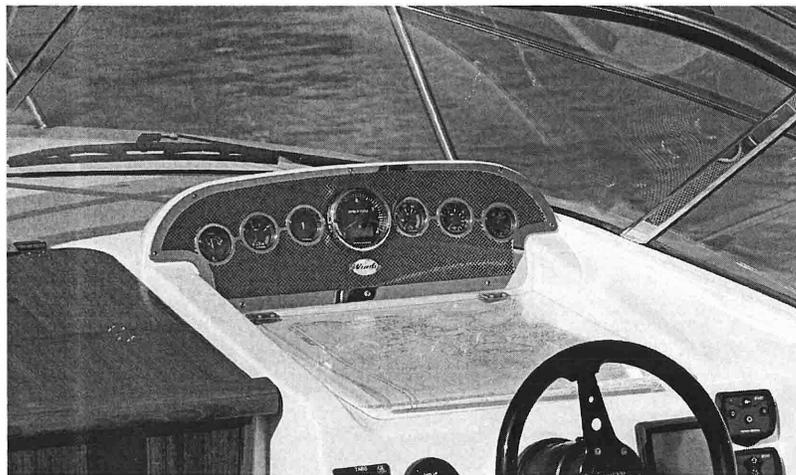
As an extra option to any of the EVC displays, including the one integrated in the tachometer, this software will make trip computer functions available for your engine. The system is extremely flexible and the functions you get available on what sensors you choose. The trip computer information is easily navigated via the EVC Panel.

The additional data available is:

- Trip fuel
- Instant fuel consumption (volume/distance)
- Average fuel consumption
- Trip distance
- Estimated remaining distance
- Average fuel rate
- Trip time

Choose your instrument

You can choose either the EVC Tachometer combined with information display, the EVC Display alone or as a complement, a chart plotter by using the optional NMEA 2000 interface. To get all necessary information you need a sensor for speed, depth, watertemp. (Multisensor) or input from NMEA 183 or 2000.



Several benefits

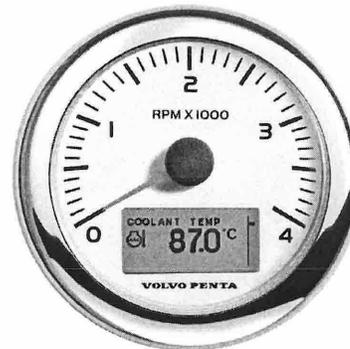
With all information, you can now optimize and plan your trip safely. You will always know how far you can go with estimated remaining distance at hand. You can also use the fuel consumption information as an essential tool to optimize cruising speed and thereby reduce CO₂ emissions.

EVC Accessories

Smart accessories that make boating simpler and more environmentally friendly. Plug-in installation of instruments, active monitoring and troubleshooting, engine data in the chart plotter and the ability to upgrade the boat's functions at a later date. It's quick and easy to install Volvo Penta EVC Accessories in a boat equipped with Volvo Penta EVC. These are some of the options available with Volvo Penta's electronic platform, EVC

World-class performance

All Volvo Penta EVC Accessories is developed, designed & serviced by Volvo Penta. This means that it's function is perfectly matched with your Volvo Penta engine. Find out more about EVC Accessories on our website.



EVC Tachometer with info display can show all available engine and trip computer data.



EVC control panel with turning knob makes the tachometer easy to navigate.

VOLVO PENTA

TRIP COMPUTER

Features:

- Instant fuel rate (volume/hour)
- Trip fuel
- Instant fuel consumption (volume/distance)
- Average fuel consumption
- Trip distance
- Estimated remaining distance
- Average fuel rate
- Trip time

Volvo Penta EVC System

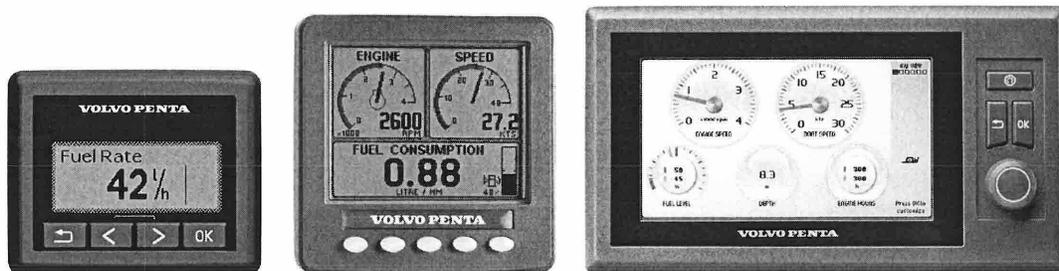
EVC – Electronic Vessel Control – is Volvo Penta's common electronic platform. Based on the same CAN-bus technology used in ships, planes and cars, EVC gives total integration. All information is distributed on one CAN-bus backbone. This radically reduces the amount of wiring and connectors required, leading to much higher reliability and easier installation.

EVC offers improved functionality as standard or option. Features that are impossible with standard systems and give you better safety, comfort and driving economy. Please contact your local Volvo Penta dealer for more information regarding Volvo Penta engines and Volvo Penta EVC system.



Volvo Penta Tachometer

The Volvo Penta tachometer comes in different colours and styles. Please visit www.volvopenta.com for more information.



Volvo Penta Displays

Volvo Penta displays comes in several sizes 2,5" / 4" / 7". Please visit www.volvopenta.com for more information.

VOLVO PENTA

AB Volvo Penta
SE-405 08 Göteborg, Sweden
www.volvopenta.com

EXHIBIT 40

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EVC Control Accessories



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A-Can Converter
 Your Price: \$415.10
 Part # 21460908

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Control Unit, Interface Kit
 Your Price: \$1679.00
 Part # 21509941

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Safety Lanyard Kit
 Your Price: \$121.43
 Part # 21469024

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Mounting Plate Kit, Side Mount Control
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 Part # 21461723

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 Part # 21461720

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Twin Control, Palm Beach Style
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 Part # 3888616

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Single Control, Palm Beach Style
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 Part # 21377436

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Neutral Safety Switch - EVC engines
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 Part # 3817104

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 Part # 21111489

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 Part # 874789

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Cable Kit, 7 meter
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Extension Cable, 3 meter

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Extension Cable, 5 meter

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Part # 3842734

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Extension Cable, 7 meter

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Part # 3842735

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Extension Cable, 9 meter

Your Price: \$157.56
Part # 3842736

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Extension Cable, 11 meter

Your Price: \$173.49
Part # 3842737

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Print Share



Description Shipping Return Policy

The EVC system opens up a world of new opportunities that make driving, safer and more fun. The following options are available for EVC controls.

Control Unit

Stand Alone HCU Kit for EVC-E

A-Can Converter

A-Can converter for controls w/o integrated HCU, kit

Control Unit, Interface Kit

Interface kit 4-20mA

Safety Lanyard Kit

Safety Lanyard Kit for EVC-D Top Mount controls

Mounting Plate Kit, Side Mount Control

Mounting plate kit for side mount control

Mounting Plate Kit, Top Mount Control

Mounting plate kit for Top mount control

Trim Control Panel

EVC- Trim Control Panel

Twin Control, Palm Beach Style

Palm Beach Style control for EVC engines (twin)

Single Control, Palm Beach Style

Palm Beach Style control for EVC engines (single)

Neutral Safety Switch - EVC engines

Safety stop switch kit for EVC engines

Adaptor Harness

D 3 adaptor harness for mechanical control

Cable Kit, 5 meter

Cable kit, 6 Pole - 5.0M

Cable Kit, 7 meter

Cable kit, 6 Pole - 7.0m

Cable Kit, 9 meter

Cable kit, 6 Pole - 9.0M

Cable Kit, 11 meter

Cable kit, 6 Pole - 11.0m

Cable Kit, 13 meter

Cable kit, 6 Pole - 13.0m

Extension Cable, 1.5 meter

6 Pole

Extension Cable, 3 meter

6 Pole

Extension Cable, 5 meter

6 Pole

Extension Cable, 7 meter

6 Pole

Extension Cable, 9 meter

6 Pole

Extension Cable, 11 meter

6 Pole

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Standard Shipping Policies

Please be careful when ordering this product, it has limitations that differ from our General 30-day Return Policy. After all, we want you to be satisfied with your order so you'll return again and again as an iboats.com customer, and to also recommend us to your boating friends

Volvo Penta Store

An item(s) may be returned within the first 30 days after the item(s) is shipped to you. Merchandise must be in new, unused condition with all original packaging in good condition; plus parts, accessories, manuals, and/or warranty cards included. You will need to receive a return authorization number (RA #) as well as instructions from our Customer Service Department.

Warranty: Volvo Penta parts carry a (1) year manufacturers warranty. Should the part you received fail after install, take a copy of the receipt to an authorized Volvo Penta dealer for a warranty evaluation. If determined that the part failed due to a defect the Volvo dealer will supply a replacement part to the consumer. If needed the Volvo dealer could assist in installation of the new part at his normal labor rate. If you need assistance finding the closest dealer number please contact our Customer Service Department.

See our complete return policy.

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