



Rhode Island Department of Environmental Management
Office of Water Resources – Stormwater Technology Review Committee
235 Promenade St. Providence, RI 02908 Ph: 401-222-4700

Alternative Stormwater Technology Program

Vendor Information:

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Technology Name:

Jellyfish® Filter - Offline
Jellyfish® Filter - Peak Diversion

Approval Type

Pretreatment/Retrofits/WQBMP

Certification Dates:

Issued: August 10, 2021
Revised: August 26, 2021
Expires: August 10, 2026

RE-CERTIFICATION:

The Rhode Island Stormwater Technology Review Committee which consists of members from the Department of Environmental Management (DEM), Department of Transportation (DOT) and the Coastal Resources Management Council (CRMC) have reviewed the **Jellyfish®** Filter application for re-certification of its Technology Approval and accepted use for Stormwater Treatment in the State of Rhode Island.

In accordance with Stormwater Rule 250-RICR-150-10-8.9B, **Contech Engineered Solutions, LLC** has petitioned the permitting agencies to re-certify the **Jellyfish®** Filter as an acceptable structural stormwater control described in Sections 8.19 through 8.25 of Stormwater Rule 250-RICR-150-10. They have submitted a re-certification application that contains any changes made to the design of the **Jellyfish®** Filter, any reported system failures (along with their cause and how the failure was remedied); as well as annual lists of all installed units in the state of Rhode Island since its original certification was issued on November 23, 2015. The manufacturer has also submitted monitoring results and supporting information developed in accordance with the provisions of the Technology Assessment Protocol for Innovate and Emerging Technologies as described in Stormwater Rule 250-RICR-150-10 Sections 8.39 and 8.40.

The **Jellyfish®** Filter is granted reciprocity in Rhode Island as a proprietary stormwater treatment technology, given that it has been issued a TAPE (Technology Assessment Protocol – Ecology) general use level designation for basic, enhanced and phosphorus treatment by the Washington State Department of Ecology in January 2021; as a result of their *Jellyfish® Filter: General Use Level Designation Technical Evaluation Report* field study conducted by Contech Engineered Solutions, LLC with third-party oversight conducted by Herrera Environmental Consultants in Dundee, Oregon during the period between March 2017 and April 2020 in accordance with the Washington Department of Ecology's TAPE procedures described in the 2018 Guidance for Evaluating Emerging Stormwater Treatment Technologies.

The **Jellyfish®** Filter is a membrane filter that serves as a physical barrier to treat stormwater runoff. This product was developed by **Contech Engineered Solutions, LLC**. The **Jellyfish®** Filter is considered a flow-through treatment practice. It can be designed to handle flows from the water quality storm event with or without upstream detention. The system contains Hi-Flo and drain down filter cartridges which are removable, rinseable and reusable.

This device varies from the design guidance for filtering systems described in Stormwater Rule 250-RICR-150-10-8.23 because of the device's typically high design treatment flow rates associated with the device's utilization of

numerous high surface area filter cartridges in lieu of traditional filter medias such as: ASTM C33 concrete sand, USDA loamy sand or USDA sandy loam. Additionally, the device itself does not meet minimum requirements for filter bed area or minimum temporary water quality storage. However, the increased infiltration rate provided by the numerous high surface area filter cartridges compensates for the devices smaller footprint and temporary storage volume. The manufacturer has demonstrated through the provided TAPE study that the device provides the minimum water quality pollutant removal rates specified in Stormwater Rule 250-RICR-150-10-8.9B. The system is approved for the following removals when designed using a maximum hydraulic loading rate of 0.21 gallons per minute per square foot of filter surface area for hi-flow cartridges and 0.11 gallons per minute per square foot of filter surface area for drain-down cartridges: **85%** removal of total suspended solids (TSS), **60%** removal of pathogens, **50%** removal of total phosphorus (TP) for discharges to freshwaters, and **30%** removal of total nitrogen (TN) for discharges to tidal waters. This device may be used as an approved water quality BMP provided that the design, installation and maintenance are conducted in accordance with the following terms and conditions:

I. GENERAL CERTIFICATION REQUIREMENTS

1. The system must be designed to adhere to the manufacturer's specifications titled "Jellyfish® Membrane Filtration System Stormwater Quality – Membrane Filtration System Standard Specification". This specification is located in the Technical Guidance section of the manufacturer's website (<https://www.conteches.com/technical-guides/search?filter=Q5R3MC9K3X>) under the Stormwater Management – Treatment section for the Jellyfish Filter.
2. The system must be designed as a **Jellyfish®** Filter "Peak Diversion" configuration, or the "Offline" configuration preceded by a flow diversion structure . Other **Jellyfish®** Filter configurations may be approved by the state permitting agency on a case-by-case basis.
3. This device is **certified as a pretreatment device** in accordance with Stormwater Rule 250-RICR-150-10-8.31, provided the device treats the first inch of runoff from the capture area, unless waived by the state permitting agency on a case-by-case basis.
4. The vendor must provide applicants with a signed letter which verifies that the design for each proprietary device meets the requirements set forth in this re-certification letter. The applicant must include this verification letter as part of their application.
5. The Vendor must verify that each proprietary device was installed in accordance with the manufacturer's specifications and the approved design.
6. A representative from the vendor must be on site during the installation of systems to ensure that they are properly constructed.
7. This device is **certified as a retrofit device** in accordance with Stormwater Rule 250-RICR-150-10-8.6A. Retrofits are allowed flexibility with regards to the eleven minimum standards described in Sections 8.6 through 8.17 of Stormwater Rule 250-RICR-150-10, but in general they are considered effective if they capture at least 50% of the catchment, and meet the target water quality treatment of at least the first 0.5 inches of the water quality volume.
8. This device is **certified as a Water Quality BMP** in accordance with pollutant removal requirements specified in Stormwater Rule 250-RICR-150-10-8.9B, provided that:
 - a) The unit is sized to treat the water quality volume and the water quality flow. Various pre-detention practices may be utilized as long as the first inch of runoff is treated. The unit must be designed using a maximum hydraulic loading rate of 0.21 gallons per minute per square foot of filter surface area for hi-flow cartridges and 0.11 gallons per minute per

square foot of filter surface area for drain-down cartridges. The water quality flow rate for a **Jellyfish**[®] unit is calculated by multiplying the number of cartridges by their respective maximum hydraulic loading rates and then multiplying that product by each cartridge's respective surface area (refer to Table 1: Sizing Table – Rhode Island Approved Jellyfish Filters). Should the permitting agency waive or relieve the applicant from the full water quality volume (i.e. for a redevelopment project or retrofit), the applicant is granted relief and may design the system to treat a smaller volume, as required by the permitting agency.

- b) This product, as designed, does not meet the recharge volume requirements, as specified in Stormwater Rule 250-RICR-150-10-8.8. However, use of this unit is not prohibited so long as the applicant can demonstrate to the permitting agency that the required recharge is met within the sub-watershed.

II. MAINTENANCE REQUIREMENTS

1. The device must be maintained in accordance with the manufacturer's specifications provided in the **Jellyfish**[®] Filter Operation & Maintenance Manual.
https://www.conteches.com/Portals/0/Documents/Maintenance%20Guides/Jellyfish_Filter_Owners%20Manual.pdf?ver=2019-12-02-110802-027
2. The entire device (drain down cartridges, Hi-Flo cartridges, cartridge deck, weirs/baffles, inlets/outlets, etc.) must be maintained in accordance with the requirements for filtering system water quality BMPs, as stated in Stormwater Rule 250-RICR-150-10-8.23-F.3 which requires the entire device to be inspected on at least an annual basis and after storms equal to or greater than the 1-year Type-III 24-hour design storm.
3. The device's sump must be maintained in accordance with the requirements for proprietary pre-treatment devices, as stated in Stormwater Rule 250-RICR-150-10-8.31-C, which requires the sump to be inspected a minimum of 2 times per year. Additionally, the device must be cleaned out when either pollutant removal capacity is reduced by 50% or more, or when 50% or more of the pollutant storage capacity is filled or displaced.
4. All material removed from the unit must be properly disposed of and is the responsibility of the owner.
5. The applicant must provide evidence of a maintenance contract which extends for a minimum of two years. The contracted maintenance provider must receive training by **Contech Engineered Solutions, LLC** on how to properly maintain **Jellyfish**[®] Filter devices. This requirement excludes maintenance providers recognized by the RIDEM to be qualified in maintenance of **Jellyfish**[®] Filter devices.
6. The applicant must include a copy of the **Jellyfish**[®] Filter Operation & Maintenance Manual in their project specific long term operation and maintenance plan.

III. REPORTING REQUIREMENTS

1. The Vendor shall provide a recommended maintenance schedule to the applicant and the permitting agency after the first year of operation. This recommended maintenance schedule must account for additional future pollutant loads on sites where contributing drainage areas may be subject to further development (i.e. strip malls).
2. The Vendor shall provide a listing to the RIDEM Office of Water Resources of all systems installed within the State of Rhode Island on an annual basis. This list shall also include the name of the Vendor representative who was on-site to verify proper installation of each system.

3. The Vendor shall provide an annual listing to the RIDEM Office of Water Resources of all Rhode Island maintenance providers that they trained in **Jellyfish**[®] Filter maintenance.
4. The Vendor shall immediately notify the RIDEM Office of Water Resources if and when any changes are made to the model name or number of any **Jellyfish**[®] Filter device applicable to this certification.
5. The Vendor shall immediately notify the RIDEM Office of Water Resources if and when any revisions are made to the design, installation or operation and maintenance manuals for all models applicable to this certification.
6. The Vendor shall notify the RIDEM at least thirty (30) days prior to any proposed transfer of ownership of the Component technology. Notification shall include the name and address of the new owner and a written agreement between the existing and new owner specifying a date for transfer of ownership, responsibility, and liability for the Component. All provisions of this Certification shall be applicable to any new owners.

IV. RIGHTS OF THE RIDEM AND CRMC

1. The RIDEM may suspend, modify or revoke this approval for cause, including but not limited to: non-compliance with any of the conditions or provisions of this approval, mis-representation or failure to fully disclose all relevant data, or receipt of new information indicating that the use of the **Jellyfish**[®] Filter system is contrary to the public interest, public health or the environment.
2. This approval does not represent an endorsement of the **Jellyfish**[®] Filter system by the RIDEM, RIDOT or CRMC. This letter of approval may be reproduced only in its entirety.
3. The **Jellyfish**[®] Filter Standard Specification and operation and maintenance manual referenced herein are approved upon the date of approval of this Certification.
4. The RIDEM reserves the right to suspend or revoke this Certification if updated design, installation, and O&M manuals are not provided to the RIDEM within thirty (30) days of RIDEM request or one hundred and eighty (180) days prior to the expiration date of this Certification. All revisions must be reviewed and approved by the RIDEM prior to re-certification.

Eric A. Beck, P.E.
Administrator, Groundwater and Wetlands Protection
RIDEM - Office of Water Resources

Date

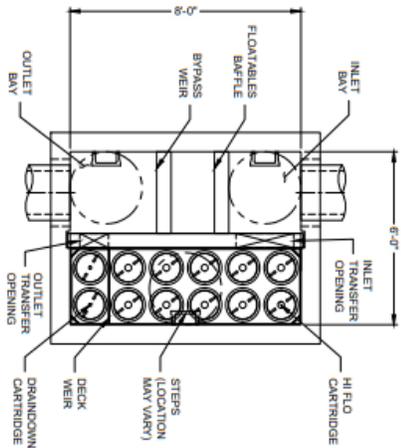
ATTACHMENTS:

Table 1: Sizing Table – Rhode Island Approved Jellyfish Filters

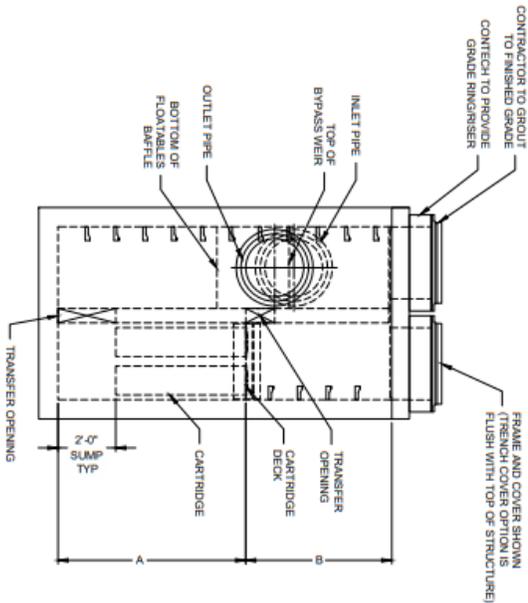
Jellyfish Filter Model #	Approximate Impervious Catchment Area (ac)	Water Quality Flow Rate (cfs)
JF 4-2-1	0.37	0.45
JF 6-3-1	0.51	0.62
JF 6-6-1	0.96	1.16
JF 8-6-2	1.03	1.25
JF 8-10-2	1.62	1.96
JF 10-11-3	1.84	2.23
JF 10-19-4	3.09	3.74
JF 12-20-5	3.32	4.01
JF 12-27-5	4.35	5.26

Table 2: Sizing Table – Rhode Island Approved Jellyfish Filter Cartridges

Jellyfish Filter Model #	Approximate Impervious Catchment Area (ac)	Water Quality Flow Rate (cfs)
15" Draindown	0.02	0.02
15" HiFlo	0.04	0.05
27" Draindown	0.04	0.05
27" HiFlo	0.07	0.09
40" Draindown	0.06	0.07
40" HiFlo	0.11	0.13
54" Draindown	0.07	0.09
54" HiFlo	0.15	0.18



PLAN VIEW
(TOP SLAB NOT SHOWN FOR CLARITY)

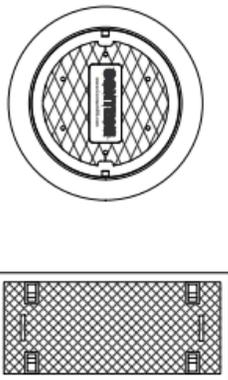


ELEVATION VIEW

JELLYFISH DESIGN NOTES

JELLYFISH TREATMENT CAPACITY IS A FUNCTION OF THE CARTRIDGE LENGTH AND THE NUMBER OF CARTRIDGES. THE STANDARD PEAK DIVERSION CAPACITY IS 150 GPM PER LINEAL FOOT OF STRUCTURE. THE NUMBER OF CARTRIDGES PER LINEAL FOOT OF STRUCTURE IS 1.0. THE NUMBER OF CARTRIDGES PER LINEAL FOOT OF STRUCTURE IS 1.0. THE NUMBER OF CARTRIDGES PER LINEAL FOOT OF STRUCTURE IS 1.0. THE NUMBER OF CARTRIDGES PER LINEAL FOOT OF STRUCTURE IS 1.0.

CARTRIDGE SELECTION	54"	40"	27"	15"
CARTRIDGE LENGTH	54"	40"	27"	15"
OUTLET INVERT TO STRUCTURE INVERT (A)	6'-6"	5'-4"	4'-3"	3'-3"
FLOW RATE (H.F.L.O. / DRAINDOWN (C.F.S.) / PEAK FLOW RATE (C.F.S.) / PEAK FLOW RATE (C.F.S.) / PEAK FLOW RATE (C.F.S.)	0.178 / 0.089	0.133 / 0.067	0.089 / 0.045	0.049 / 0.025
MAX. TREATMENT (C.F.S.)	1.96	1.47	0.98	0.54
DECK TO INSIDE TOP (MIN.) (B)	5.00	4.00	4.00	4.00



24"
FRAME AND COVER (DIAMETER VARIES)
TRENCH COVER (LENGTH VARIES)
N.T.S.

SITE SPECIFIC DATA REQUIREMENTS

STRUCTURE ID				
WATER QUALITY FLOW RATE (d/s)				
PEAK FLOW RATE (d/s)				
RETURN PERIOD OF PEAK FLOW (hrs)				
# OF CARTRIDGES REQUIRED (HF / LFO)				
CARTRIDGE LENGTH				
PERE DATA	TE	MA	DA	SLOPE %
INLET #1	*	*	*	*
INLET #2	*	*	*	*
OUTLET	*	*	*	*

FINN ELEVATION			
ANTI-FLOTATION BALLAST		WIDTH	HEIGHT
NOTES/SPECIAL REQUIREMENTS:			
PER ENGINEER OF RECORD			

- GENERAL NOTES:**
1. CONTRACTOR TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
 2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEER.
 3. JELLYFISH WATER QUALITY STRUCTURE MEETS REQUIREMENTS OF PROJECT.
 4. STRUCTURE SHALL MEET ASHTO HS-20 OR PER APPROVING JURISDICTION REQUIREMENTS, WHICHEVER IS MORE STRINGENT, ASSUMING EARTH COVER OF 0', 10', AND GROUNDWATER ELEVATION AT OR BELOW THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET ASHTO M406/LAND DRAINING AND BE CAST WITH THE CONTECH LOGO.
 5. STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-897, ASTM C-918, AND ASHTO LOAD FACTOR DESIGN METHOD.
 6. THE OUTLET PIPE SHALL BE 12" DIA. TO THE INVERT.
 7. THE OUTLET PIPE DIAMETER FOR NEW INSTALLATIONS IS RECOMMENDED TO BE ONE PIPE SIZE LARGER THAN THE INLET PIPE AT EQUAL OR GREATER SLOPE.
 8. NO PRODUCT SUBSTITUTIONS SHALL BE ACCEPTED UNLESS SUBMITTED 10 DAYS PRIOR TO PROJECT BID DATE, OR AS DIRECTED BY THE ENGINEER OF RECORD.

- INSTALLATION NOTES:**
- A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
 - B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE STRUCTURE.
 - C. CONTRACTOR WILL INSTALL AND LEVEL THE STRUCTURE, SEALING THE JOINTS, LINE ENTRY AND EXIT POINTS (NON-SHRINK GROUT WITH APPROVED WATERSTOP OR FLEXIBLE BOOT).
 - D. CARTRIDGE INSTALLATION BY CONTECH SHALL OCCUR ONLY AFTER SITE HAS BEEN STABILIZED AND THE JELLYFISH UNIT IS CLEAN AND FREE OF DEBRIS. CONTACT CONTECH TO COORDINATE CARTRIDGE INSTALLATION WITH SITE STABILIZATION.

Jellyfish Filter
THIS PRODUCT IS REGISTERED BY ONE OR MORE OF THE FOLLOWING U.S. PATENT NOS. 3,277,726; 3,271,126; 4,024,385; 4,024,386; 4,024,387; 4,024,388; 4,024,389; 4,024,390; 4,024,391; 4,024,392; 4,024,393; 4,024,394; 4,024,395; 4,024,396; 4,024,397; 4,024,398; 4,024,399; 4,024,400; 4,024,401; 4,024,402; 4,024,403; 4,024,404; 4,024,405; 4,024,406; 4,024,407; 4,024,408; 4,024,409; 4,024,410; 4,024,411; 4,024,412; 4,024,413; 4,024,414; 4,024,415; 4,024,416; 4,024,417; 4,024,418; 4,024,419; 4,024,420; 4,024,421; 4,024,422; 4,024,423; 4,024,424; 4,024,425; 4,024,426; 4,024,427; 4,024,428; 4,024,429; 4,024,430; 4,024,431; 4,024,432; 4,024,433; 4,024,434; 4,024,435; 4,024,436; 4,024,437; 4,024,438; 4,024,439; 4,024,440; 4,024,441; 4,024,442; 4,024,443; 4,024,444; 4,024,445; 4,024,446; 4,024,447; 4,024,448; 4,024,449; 4,024,450; 4,024,451; 4,024,452; 4,024,453; 4,024,454; 4,024,455; 4,024,456; 4,024,457; 4,024,458; 4,024,459; 4,024,460; 4,024,461; 4,024,462; 4,024,463; 4,024,464; 4,024,465; 4,024,466; 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4,024,740; 4,024,741; 4,024,742; 4,024,743; 4,024,744; 4,024,745; 4,024,746; 4,024,747; 4,024,748; 4,024,749; 4,024,750; 4,024,751; 4,024,752; 4,024,753; 4,024,754; 4,024,755; 4,024,756; 4,024,757; 4,024,758; 4,024,759; 4,024,760; 4,024,761; 4,024,762; 4,024,763; 4,024,764; 4,024,765; 4,024,766; 4,024,767; 4,024,768; 4,024,769; 4,024,770; 4,024,771; 4,024,772; 4,024,773; 4,024,774; 4,024,775; 4,024,776; 4,024,777; 4,024,778; 4,024,779; 4,024,780; 4,024,781; 4,024,782; 4,024,783; 4,024,784; 4,024,785; 4,024,786; 4,024,787; 4,024,788; 4,024,789; 4,024,790; 4,024,791; 4,024,792; 4,024,793; 4,024,794; 4,024,795; 4,024,796; 4,024,797; 4,024,798; 4,024,799; 4,024,800; 4,024,801; 4,024,802; 4,024,803; 4,024,804; 4,024,805; 4,024,806; 4,024,807; 4,024,808; 4,024,809; 4,024,810; 4,024,811; 4,024,812; 4,024,813; 4,024,814; 4,024,815; 4,024,816; 4,024,817; 4,024,818; 4,024,819; 4,024,820; 4,024,821; 4,024,822; 4,024,823; 4,024,824; 4,024,825; 4,024,826; 4,024,827; 4,024,828; 4,024,829; 4,024,830; 4,024,831; 4,024,832; 4,024,833; 4,024,834; 4,024,835; 4,024,836; 4,024,837; 4,024,838; 4,024,839; 4,024,840; 4,024,841; 4,024,842; 4,024,843; 4,024,844; 4,024,845; 4,024,846; 4,024,847; 4,024,848; 4,024,849; 4,024,850; 4,024,851; 4,024,852; 4,024,853; 4,024,854; 4,024,855; 4,024,856; 4,024,857; 4,024,858; 4,024,859; 4,024,860; 4,024,861; 4,024,862; 4,024,863; 4,024,864; 4,024,865; 4,024,866; 4,024,867; 4,024,868; 4,024,869; 4,024,870; 4,024,871; 4,024,872; 4,024,873; 4,024,874; 4,024,875; 4,024,876; 4,024,877; 4,024,878; 4,024,879; 4,024,880; 4,024,881; 4,024,882; 4,024,883; 4,024,884; 4,024,885; 4,024,886; 4,024,887; 4,024,888; 4,024,889; 4,024,890; 4,024,891; 4,024,892; 4,024,893; 4,024,894; 4,024,895; 4,024,896; 4,024,897; 4,024,898; 4,024,899; 4,024,900; 4,024,901; 4,024,902; 4,024,903; 4,024,904; 4,024,905; 4,024,906; 4,024,907; 4,024,908; 4,024,909; 4,024,910; 4,024,911; 4,024,912; 4,024,913; 4,024,914; 4,024,915; 4,024,916; 4,024,917; 4,024,918; 4,024,919; 4,024,920; 4,024,921; 4,024,922; 4,024,923; 4,024,924; 4,024,925; 4,024,926; 4,024,927; 4,024,928; 4,024,929; 4,024,930; 4,024,931; 4,024,932; 4,024,933; 4,024,934; 4,024,935; 4,024,936; 4,024,937; 4,024,938; 4,024,939; 4,024,940; 4,024,941; 4,024,942; 4,024,943; 4,024,944; 4,024,945; 4,024,946; 4,024,947; 4,024,948; 4,024,949; 4,024,950; 4,024,951; 4,024,952; 4,024,953; 4,024,954; 4,024,955; 4,024,956; 4,024,957; 4,024,958; 4,024,959; 4,024,960; 4,024,961; 4,024,962; 4,024,963; 4,024,964; 4,024,965; 4,024,966; 4,024,967; 4,024,968; 4,024,969; 4,024,970; 4,024,971; 4,024,972; 4,024,973; 4,024,974; 4,024,975; 4,024,976; 4,024,977; 4,024,978; 4,024,979; 4,024,980; 4,024,981; 4,024,982; 4,024,983; 4,024,984; 4,024,985; 4,024,986; 4,024,987; 4,024,988; 4,024,989; 4,024,990; 4,024,991; 4,024,992; 4,024,993; 4,024,994; 4,024,995; 4,024,996; 4,024,997; 4,024,998; 4,024,999; 4,025,000.

CONTECH
JELLYFISH JPPD0806
STANDARD DETAIL
PEAK DIVERSION CONFIGURATION

Jellyfish Filter
THIS PRODUCT IS REGISTERED BY ONE OR MORE OF THE FOLLOWING U.S. PATENT NOS. 3,277,726; 3,271,126; 4,024,385; 4,024,386; 4,024,387; 4,024,388; 4,024,389; 4,024,390; 4,024,391; 4,024,392; 4,024,393; 4,024,394; 4,024,395; 4,024,396; 4,024,397; 4,024,398; 4,024,399; 4,024,400; 4,024,401; 4,024,402; 4,024,403; 4,024,404; 4,024,405; 4,024,406; 4,024,407; 4,024,408; 4,024,409; 4,024,410; 4,024,411; 4,024,412; 4,024,413; 4,024,414; 4,024,415; 4,024,416; 4,024,417; 4,024,418; 4,024,419; 4,024,420; 4,024,421; 4,024,422; 4,024,423; 4,024,424; 4,024,425; 4,024,426; 4,024,427; 4,024,428; 4,024,429; 4,024,430; 4,024,431; 4,024,432; 4,024,433; 4,024,434; 4,024,435; 4,024,436; 4,024,437; 4,024,438; 4,024,439; 4,024,440; 4,024,441; 4,024,442; 4,024,443; 4,024,444; 4,024,445; 4,024,446; 4,024,447; 4,024,448; 4,024,449; 4,024,450; 4,024,451; 4,024,452; 4,024,453; 4,024,454; 4,024,455; 4,024,456; 4,024,457; 4,024,458; 4,024,459; 4,024,460; 4,024,461; 4,024,462; 4,024,463; 4,024,464; 4,024,465; 4,024,466; 4,024,467; 4,024,468; 4,024,469; 4,024,470; 4,024,471; 4,024,472; 4,024,473; 4,024,474; 4,024,475; 4,024,476; 4,024,477; 4,024,478; 4,024,479; 4,024,480; 4,024,481; 4,024,482; 4,024,483; 4,024,484; 4,024,485; 4,024,486; 4,024,487; 4,024,488; 4,024,489; 4,024,490; 4,024,491; 4,024,492; 4,024,493; 4,024,494; 4,024,495; 4,024,496; 4,024,497; 4,024,498; 4,024,499; 4,024,500; 4,024,501; 4,024,502; 4,024,503; 4,024,504; 4,024,505; 4,024,506; 4,024,507; 4,024,508; 4,024,509; 4,024,510; 4,024,511; 4,024,512; 4,024,513; 4,024,514; 4,024,515; 4,024,516; 4,024,517; 4,024,518; 4,024,519; 4,024,520; 4,024,521; 4,024,522; 4,024,523; 4,024,524; 4,024,525; 4,024,526; 4,024,527; 4,024,528; 4,024,529; 4,024,530; 4,024,531; 4,024,532; 4,024,533; 4,024,534; 4,024,535; 4,024,536; 4,024,537; 4,024,538; 4,024,539; 4,024,540; 4,024,541; 4,024,542; 4,024,543; 4,024,544; 4,024,545; 4,024,546; 4,024,547; 4,024,548; 4,024,549; 4,024,550; 4,024,551; 4,024,552; 4,024,553; 4,024,554; 4,024,555; 4,024,556; 4,024,557; 4,024,558; 4,024,559; 4,024,560; 4,024,561; 4,024,562; 4,024,563; 4,024,564; 4,024,565; 4,024,566; 4,024,567; 4,024,568; 4,024,569; 4,024,570; 4,024,571; 4,024,572; 4,024,573; 4,024,574; 4,024,575; 4,024,576; 4,024,577; 4,024,578; 4,024,579; 4,024,580; 4,024,581; 4,024,582; 4,024,583; 4,024,584; 4,024,585; 4,024,586; 4,024,587; 4,024,588; 4,024,589; 4,024,590; 4,024,591; 4,024,592; 4,024,593; 4,024,594; 4,024,595; 4,024,596; 4,024,597; 4,024,598; 4,024,599; 4,024,600; 4,024,601; 4,024,602; 4,024,603; 4,024,604; 4,024,605; 4,024,606; 4,024,607; 4,024,608; 4,024,609; 4,024,610; 4,024,611; 4,024,612; 4,024,613; 4,024,614; 4,024,615; 4,024,616; 4,024,617; 4,024,618; 4,024,619; 4,024,620; 4,024,621; 4,024,622; 4,024,623; 4,024,624; 4,024,625; 4,024,626; 4,024,627; 4,024,628; 4,024,629; 4,024,630; 4,024,631; 4,024,632; 4,024,633; 4,024,634; 4,024,635; 4,024,636; 4,024,637; 4,024,638; 4,024,639; 4,024,640; 4,024,641; 4,024,642; 4,024,643; 4,024,644; 4,024,645; 4,024,646; 4,024,647