

- NOTES:
- ALL DIMENSIONS SHOWN IN TABLE ARE IN INCHES, UNLESS OTHERWISE NOTED & ARE ± 1 INCH (25MM).
  - ALL PLUMBING ITEMS SHOWN IN INSTALLATION DRAWING ARE TO BE PROVIDED BY OTHERS.
  - ALL DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE.
  - INSTALL UNIONS FITTINGS ON INLET, OUTLET & DRAIN PLUMBING CONNECTIONS.
  - PROVIDE A 36 INCH MINIMUM CLEARANCE ABOVE FILTER HOUSING LID FOR REPLACING FILTER CARTRIDGE.
  - FOR INSTALLATIONS USING METAL PLUMBING, CONNECT A METAL BONDING STRAP TO INLET & OUTLET METAL PLUMBING TO MAINTAIN ELECTRICAL CONTINUITY.
  - MODEL BBH-150-NP DOES NOT HAVE GAUGE PORT IN LID. TO VIEW INLET PRESSURE, INSTALLER MUST LOCATE AN INLET PRESSURE GAUGE IN INLET PIPING.
  - FLOW RATE INFORMATION IS FOR A CLEAN FILTER ON A CLEAN WATER SUPPLY. SEE PRODUCT SPECIFICATION SHEET FOR ADDITIONAL PRODUCT PERFORMANCE INFORMATION.
  - DO NOT INSTALL DRAIN LINE DIRECTLY TO A DRAIN. FOR PROPER DRAIN CONNECTION FOLLOW ALL NATIONAL, STATE AND LOCAL CODES. CONSTRUCT DRAIN LINE IN A MANNER THAT ALLOWS WATER RETAINED WITHIN FILTER HOUSING TO BE EMPTIED.
  - THE FULL WEIGHT OF THE PIPING AND VALVES MUST BE SUPPORTED BY PIPE HANGERS OR OTHER MEANS.
  - INLET AND OUTLET HEADERS NEED TO BE SIZED ACCORDING TO FLOW RATE REQUIREMENTS BY OTHERS.
  - LIMIT INLET PRESSURE TO NOT EXCEED MAXIMUM PUBLISHED OPERATING PRESSURE.
  - 3/8" ANCHOR BOLTS (3EA) FOR CONCRETE ARE SUPPLIED. FOR OTHER FLOOR TYPES, MOUNTING HARDWARE IS INSTALLER SUPPLIED.

SERIES BBH-150 BIG BUBBA CARTRIDGE FILTER HOUSINGS DIMENSION (INCHES) & SPECIFICATIONS

MODEL NO.	ORDERING CODES (EDP NO.)	INLET	OUTLET	OVERALL HEIGHT (SEE NOTE 5 & 7)	OVERALL DEPTH	OVERALL WIDTH	INLET/OUTLET PIPE SIZE (FEMALE SOCKET WELD PVC)	UNFILTERED WATER DRAIN CONN. SIZE (FNPT)	SERVICE FLOW RATE	REPLACEMENT FILTER CARTRIDGE MODEL NO.	NUMBER OF FILTER CARTRIDGES IN HOUSING	MIN/MAX OPERATING TEMP F*	MAX OPERATING PRESSURE (PSI)	ESTIMATED OPERATING WEIGHT (LBS)	ESTIMATED SHIPPING WEIGHT (LBS)
BBH-150	68100639	21.6	3.9	42.6	13.5	16.75	2.0	0.5	SEE CARTRIDGE TABLE	SEE CARTRIDGE TABLE	1.0	34/125 (125°F @ 80 PSI)	125	98.00	39.00
BBH-150-NP	68100640	21.6	3.9	39.45	13.5	16.75	2.0	0.5	SEE CARTRIDGE TABLE	SEE CARTRIDGE TABLE	1.0	34/125 (125°F @ 80 PSI)	125	97.00	38.00

**WATTS** 815 CHESTNUT ST. NORTH ANDOVER, MA 01845

THIS DRAWING IS UNLESS SPECIFIED: FRACTIONAL ANGULAR 1/16" 3/32" 1/8" 1/4" 3/8" 1/2" 5/8" 3/4" 1" 1 1/4" 1 1/2" 1 3/4" 2" 2 1/2" 3" 3 1/2" 4" 4 1/2" 5" 5 1/2" 6" 6 1/2" 7" 7 1/2" 8" 8 1/2" 9" 9 1/2" 10" 10 1/2" 11" 11 1/2" 12" 12 1/2" 13" 13 1/2" 14" 14 1/2" 15" 15 1/2" 16" 16 1/2" 17" 17 1/2" 18" 18 1/2" 19" 19 1/2" 20" 20 1/2" 21" 21 1/2" 22" 22 1/2" 23" 23 1/2" 24" 24 1/2" 25" 25 1/2" 26" 26 1/2" 27" 27 1/2" 28" 28 1/2" 29" 29 1/2" 30" 30 1/2" 31" 31 1/2" 32" 32 1/2" 33" 33 1/2" 34" 34 1/2" 35" 35 1/2" 36" 36 1/2" 37" 37 1/2" 38" 38 1/2" 39" 39 1/2" 40" 40 1/2" 41" 41 1/2" 42" 42 1/2" 43" 43 1/2" 44" 44 1/2" 45" 45 1/2" 46" 46 1/2" 47" 47 1/2" 48" 48 1/2" 49" 49 1/2" 50" 50 1/2" 51" 51 1/2" 52" 52 1/2" 53" 53 1/2" 54" 54 1/2" 55" 55 1/2" 56" 56 1/2" 57" 57 1/2" 58" 58 1/2" 59" 59 1/2" 60" 60 1/2" 61" 61 1/2" 62" 62 1/2" 63" 63 1/2" 64" 64 1/2" 65" 65 1/2" 66" 66 1/2" 67" 67 1/2" 68" 68 1/2" 69" 69 1/2" 70" 70 1/2" 71" 71 1/2" 72" 72 1/2" 73" 73 1/2" 74" 74 1/2" 75" 75 1/2" 76" 76 1/2" 77" 77 1/2" 78" 78 1/2" 79" 79 1/2" 80" 80 1/2" 81" 81 1/2" 82" 82 1/2" 83" 83 1/2" 84" 84 1/2" 85" 85 1/2" 86" 86 1/2" 87" 87 1/2" 88" 88 1/2" 89" 89 1/2" 90" 90 1/2" 91" 91 1/2" 92" 92 1/2" 93" 93 1/2" 94" 94 1/2" 95" 95 1/2" 96" 96 1/2" 97" 97 1/2" 98" 98 1/2" 99" 99 1/2" 100" 100 1/2" 101" 101 1/2" 102" 102 1/2" 103" 103 1/2" 104" 104 1/2" 105" 105 1/2" 106" 106 1/2" 107" 107 1/2" 108" 108 1/2" 109" 109 1/2" 110" 110 1/2" 111" 111 1/2" 112" 112 1/2" 113" 113 1/2" 114" 114 1/2" 115" 115 1/2" 116" 116 1/2" 117" 117 1/2" 118" 118 1/2" 119" 119 1/2" 120" 120 1/2" 121" 121 1/2" 122" 122 1/2" 123" 123 1/2" 124" 124 1/2" 125" 125 1/2" 126" 126 1/2" 127" 127 1/2" 128" 128 1/2" 129" 129 1/2" 130" 130 1/2" 131" 131 1/2" 132" 132 1/2" 133" 133 1/2" 134" 134 1/2" 135" 135 1/2" 136" 136 1/2" 137" 137 1/2" 138" 138 1/2" 139" 139 1/2" 140" 140 1/2" 141" 141 1/2" 142" 142 1/2" 143" 143 1/2" 144" 144 1/2" 145" 145 1/2" 146" 146 1/2" 147" 147 1/2" 148" 148 1/2" 149" 149 1/2" 150" 150 1/2" 151" 151 1/2" 152" 152 1/2" 153" 153 1/2" 154" 154 1/2" 155" 155 1/2" 156" 156 1/2" 157" 157 1/2" 158" 158 1/2" 159" 159 1/2" 160" 160 1/2" 161" 161 1/2" 162" 162 1/2" 163" 163 1/2" 164" 164 1/2" 165" 165 1/2" 166" 166 1/2" 167" 167 1/2" 168" 168 1/2" 169" 169 1/2" 170" 170 1/2" 171" 171 1/2" 172" 172 1/2" 173" 173 1/2" 174" 174 1/2" 175" 175 1/2" 176" 176 1/2" 177" 177 1/2" 178" 178 1/2" 179" 179 1/2" 180" 180 1/2" 181" 181 1/2" 182" 182 1/2" 183" 183 1/2" 184" 184 1/2" 185" 185 1/2" 186" 186 1/2" 187" 187 1/2" 188" 188 1/2" 189" 189 1/2" 190" 190 1/2" 191" 191 1/2" 192" 192 1/2" 193" 193 1/2" 194" 194 1/2" 195" 195 1/2" 196" 196 1/2" 197" 197 1/2" 198" 198 1/2" 199" 199 1/2" 200" 200 1/2" 201" 201 1/2" 202" 202 1/2" 203" 203 1/2" 204" 204 1/2" 205" 205 1/2" 206" 206 1/2" 207" 207 1/2" 208" 208 1/2" 209" 209 1/2" 210" 210 1/2" 211" 211 1/2" 212" 212 1/2" 213" 213 1/2" 214" 214 1/2" 215" 215 1/2" 216" 216 1/2" 217" 217 1/2" 218" 218 1/2" 219" 219 1/2" 220" 220 1/2" 221" 221 1/2" 222" 222 1/2" 223" 223 1/2" 224" 224 1/2" 225" 225 1/2" 226" 226 1/2" 227" 227 1/2" 228" 228 1/2" 229" 229 1/2" 230" 230 1/2" 231" 231 1/2" 232" 232 1/2" 233" 233 1/2" 234" 234 1/2" 235" 235 1/2" 236" 236 1/2" 237" 237 1/2" 238" 238 1/2" 239" 239 1/2" 240" 240 1/2" 241" 241 1/2" 242" 242 1/2" 243" 243 1/2" 244" 244 1/2" 245" 245 1/2" 246" 246 1/2" 247" 247 1/2" 248" 248 1/2" 249" 249 1/2" 250" 250 1/2" 251" 251 1/2" 252" 252 1/2" 253" 253 1/2" 254" 254 1/2" 255" 255 1/2" 256" 256 1/2" 257" 257 1/2" 258" 258 1/2" 259" 259 1/2" 260" 260 1/2" 261" 261 1/2" 262" 262 1/2" 263" 263 1/2" 264" 264 1/2" 265" 265 1/2" 266" 266 1/2" 267" 267 1/2" 268" 268 1/2" 269" 269 1/2" 270" 270 1/2" 271" 271 1/2" 272" 272 1/2" 273" 273 1/2" 274" 274 1/2" 275" 275 1/2" 276" 276 1/2" 277" 277 1/2" 278" 278 1/2" 279" 279 1/2" 280" 280 1/2" 281" 281 1/2" 282" 282 1/2" 283" 283 1/2" 284" 284 1/2" 285" 285 1/2" 286" 286 1/2" 287" 287 1/2" 288" 288 1/2" 289" 289 1/2" 290" 290 1/2" 291" 291 1/2" 292" 292 1/2" 293" 293 1/2" 294" 294 1/2" 295" 295 1/2" 296" 296 1/2" 297" 297 1/2" 298" 298 1/2" 299" 299 1/2" 300" 300 1/2" 301" 301 1/2" 302" 302 1/2" 303" 303 1/2" 304" 304 1/2" 305" 305 1/2" 306" 306 1/2" 307" 307 1/2" 308" 308 1/2" 309" 309 1/2" 310" 310 1/2" 311" 311 1/2" 312" 312 1/2" 313" 313 1/2" 314" 314 1/2" 315" 315 1/2" 316" 316 1/2" 317" 317 1/2" 318" 318 1/2" 319" 319 1/2" 320" 320 1/2" 321" 321 1/2" 322" 322 1/2" 323" 323 1/2" 324" 324 1/2" 325" 325 1/2" 326" 326 1/2" 327" 327 1/2" 328" 328 1/2" 329" 329 1/2" 330" 330 1/2" 331" 331 1/2" 332" 332 1/2" 333" 333 1/2" 334" 334 1/2" 335" 335 1/2" 336" 336 1/2" 337" 337 1/2" 338" 338 1/2" 339" 339 1/2" 340" 340 1/2" 341" 341 1/2" 342" 342 1/2" 343" 343 1/2" 344" 344 1/2" 345" 345 1/2" 346" 346 1/2" 347" 347 1/2" 348" 348 1/2" 349" 349 1/2" 350" 350 1/2" 351" 351 1/2" 352" 352 1/2" 353" 353 1/2" 354" 354 1/2" 355" 355 1/2" 356" 356 1/2" 357" 357 1/2" 358" 358 1/2" 359" 359 1/2" 360" 360 1/2" 361" 361 1/2" 362" 362 1/2" 363" 363 1/2" 364" 364 1/2" 365" 365 1/2" 366" 366 1/2" 367" 367 1/2" 368" 368 1/2" 369" 369 1/2" 370" 370 1/2" 371" 371 1/2" 372" 372 1/2" 373" 373 1/2" 374" 374 1/2" 375" 375 1/2" 376" 376 1/2" 377" 377 1/2" 378" 378 1/2" 379" 379 1/2" 380" 380 1/2" 381" 381 1/2" 382" 382 1/2" 383" 383 1/2" 384" 384 1/2" 385" 385 1/2" 386" 386 1/2" 387" 387 1/2" 388" 388 1/2" 389" 389 1/2" 390" 390 1/2" 391" 391 1/2" 392" 392 1/2" 393" 393 1/2" 394" 394 1/2" 395" 395 1/2" 396" 396 1/2" 397" 397 1/2" 398" 398 1/2" 399" 399 1/2" 400" 400 1/2" 401" 401 1/2" 402" 402 1/2" 403" 403 1/2" 404" 404 1/2" 405" 405 1/2" 406" 406 1/2" 407" 407 1/2" 408" 408 1/2" 409" 409 1/2" 410" 410 1/2" 411" 411 1/2" 412" 412 1/2" 413" 413 1/2" 414" 414 1/2" 415" 415 1/2" 416" 416 1/2" 417" 417 1/2" 418" 418 1/2" 419" 419 1/2" 420" 420 1/2" 421" 421 1/2" 422" 422 1/2" 423" 423 1/2" 424" 424 1/2" 425" 425 1/2" 426" 426 1/2" 427" 427 1/2" 428" 428 1/2" 429" 429 1/2" 430" 430 1/2" 431" 431 1/2" 432" 432 1/2" 433" 433 1/2" 434" 434 1/2" 435" 435 1/2" 436" 436 1/2" 437" 437 1/2" 438" 438 1/2" 439" 439 1/2" 440" 440 1/2" 441" 441 1/2" 442" 442 1/2" 443" 443 1/2" 444" 444 1/2" 445" 445 1/2" 446" 446 1/2" 447" 447 1/2" 448" 448 1/2" 449" 449 1/2" 450" 450 1/2" 451" 451 1/2" 452" 452 1/2" 453" 453 1/2" 454" 454 1/2" 455" 455 1/2" 456" 456 1/2" 457" 457 1/2" 458" 458 1/2" 459" 459 1/2" 460" 460 1/2" 461" 461 1/2" 462" 462 1/2" 463" 463 1/2" 464" 464 1/2" 465" 465 1/2" 466" 466 1/2" 467" 467 1/2" 468" 468 1/2" 469" 469 1/2" 470" 470 1/2" 471" 471 1/2" 472" 472 1/2" 473" 473 1/2" 474" 474 1/2" 475" 475 1/2" 476" 476 1/2" 477" 477 1/2" 478" 478 1/2" 479" 479 1/2" 480" 480 1/2" 481" 481 1/2" 482" 482 1/2" 483" 483 1/2" 484" 484 1/2" 485" 485 1/2" 486" 486 1/2" 487" 487 1/2" 488" 488 1/2" 489" 489 1/2" 490" 490 1/2" 491" 491 1/2" 492" 492 1/2" 493" 493 1/2" 494" 494 1/2" 495" 495 1/2" 496" 496 1/2" 497" 497 1/2" 498" 498 1/2" 499" 499 1/2" 500" 500 1/2" 501" 501 1/2" 502" 502 1/2" 503" 503 1/2" 504" 504 1/2" 505" 505 1/2" 506" 506 1/2" 507" 507 1/2" 508" 508 1/2" 509" 509 1/2" 510" 510 1/2" 511" 511 1/2" 512" 512 1/2" 513" 513 1/2" 514" 514 1/2" 515" 515 1/2" 516" 516 1/2" 517" 517 1/2" 518" 518 1/2" 519" 519 1/2" 520" 520 1/2" 521" 521 1/2" 522" 522 1/2" 523" 523 1/2" 524" 524 1/2" 525" 525 1/2" 526" 526 1/2" 527" 527 1/2" 528" 528 1/2" 529" 529 1/2" 530" 530 1/2" 531" 531 1/2" 532" 532 1/2" 533" 533 1/2" 534" 534 1/2" 535" 535 1/2" 536" 536 1/2" 537" 537 1/2" 538" 538 1/2" 539" 539 1/2" 540" 540 1/2" 541" 541 1/2" 542" 542 1/2" 543" 543 1/2" 544" 544 1/2" 545" 545 1/2" 546" 546 1/2" 547" 547 1/2" 548" 548 1/2" 549" 549 1/2" 550" 550 1/2" 551" 551 1/2" 552" 552 1/2" 553" 553 1/2" 554" 554 1/2" 555" 555 1/2" 556" 556 1/2" 557" 557 1/2" 558" 558 1/2" 559" 559 1/2" 560" 560 1/2" 561" 561 1/2" 562" 562 1/2" 563" 563 1/2" 564" 564 1/2" 565" 565 1/2" 566" 566 1/2" 567" 567 1/2" 568" 568 1/2" 569" 569 1/2" 570" 570 1/2" 571" 571 1/2" 572" 572 1/2" 573" 573 1/2" 574" 574 1/2" 575" 575 1/2" 576" 576 1/2" 577" 577 1/2" 578" 578 1/2" 579" 579 1/2" 580" 580 1/2" 581" 581 1/2" 582" 582 1/2" 583" 583 1/2" 584" 584 1/2" 585" 585 1/2" 586" 586 1/2" 587" 587 1/2" 588" 588 1/2" 589" 589 1/2" 590" 590 1/2" 591" 591 1/2" 592" 592 1/2" 593" 593 1/2" 594" 594 1/2" 595" 595 1/2" 596" 596 1/2" 597" 597 1/2" 598" 598 1/2" 599" 599 1/2" 600" 600 1/2" 601" 601 1/2" 602" 602 1/2" 603" 603 1/2" 604" 604 1/2" 605" 605 1/2" 606" 606 1/2" 607" 607 1/2" 608" 608 1/2" 609" 609 1/2" 610" 610 1/2" 611" 611 1/2" 612" 612 1/2" 613" 613 1/2" 614" 614 1/2" 615" 615 1/2" 616" 616 1/2" 617" 617 1/2" 618" 618 1/2" 619" 619 1/2" 620" 620 1/2" 621" 621 1/2" 622" 622 1/2" 623" 623 1/2" 624" 624 1/2" 625" 625 1/2" 626" 626 1/2" 627" 627 1/2" 628" 628 1/2" 629" 629 1/2" 630" 630 1/2" 631" 631 1/2" 632" 632 1/2" 633" 633 1/2" 634" 634 1/2" 635" 635 1/2" 636" 636 1/2" 637" 637 1/2" 638" 638 1/2" 639" 639 1/2" 640" 640 1/2" 641" 641 1/2" 642" 642 1/2" 643" 643 1/2" 644" 644 1/2" 645" 645 1/2" 646" 646 1/2" 647" 647 1/2" 648" 648 1/2" 649" 649 1/2" 650" 650 1/2" 651" 651 1/2" 652" 652 1/2" 653" 653 1/2" 654" 654 1/2" 655" 655 1/2" 656" 656 1/2" 657" 657 1/2" 658" 658 1/2" 659" 659 1/2" 660" 660 1/2" 661" 661 1/2" 662" 662 1/2" 663" 663 1/2" 664" 664 1/2" 665" 665 1/2" 666" 666 1/2" 667" 667 1/2" 668" 668 1/2" 669" 669 1/2" 670" 670 1/2" 671" 671 1/2" 672" 672 1/2" 673" 673 1/2" 674" 674 1/2" 675" 675 1/2" 676" 676 1/2" 677" 677 1/2" 678" 678 1/2" 679" 679 1/2" 680" 680 1/2" 681" 681 1/2" 682" 682 1/2" 683" 683 1/2" 684" 684 1/2" 685" 685 1/2" 686" 686 1/2" 687" 687 1/2" 688" 688 1/2" 689" 689 1/2" 690" 690 1/2" 691" 691 1/2" 692" 692 1/2" 693" 693 1/2" 694" 694 1/2" 695" 695 1/2" 696" 696 1/2" 697" 697 1/2" 698" 698 1/2" 699" 699 1/2" 700" 700 1/2" 701" 701 1/2" 702" 702 1/2" 703" 703 1/2" 704" 704 1/2" 705" 705 1/2" 706" 706 1/2" 707" 707 1/2" 708" 708 1/2" 709" 709 1/2" 710" 710 1/2" 711" 711 1/2" 712" 712 1/2" 713" 713 1/2" 714" 714 1/2" 715" 715 1/2" 716" 716 1/2" 717" 717 1/2" 718" 718 1/2" 719" 719 1/2" 720" 720 1/2" 721" 721 1/2" 722" 722 1/2" 723" 723 1/2" 724" 724 1/2" 725" 725 1/2" 726" 726 1/2" 727" 727 1/2" 728" 728 1/2" 729" 729 1/2" 730" 730 1/2" 731" 731 1/2" 732" 732 1/2" 733" 733 1/2" 734" 734 1/2" 735" 735 1/2" 736" 736 1/2" 737" 737 1/2" 738" 738 1/2" 739" 739 1/2" 740" 740 1/2" 741" 741 1/2" 742" 742 1/2" 743" 743 1/2" 744" 744 1/2" 745" 745 1/2" 746" 746 1/2" 747" 747 1/2" 748" 748 1/2" 749" 749 1/2" 750" 750 1/2" 751" 751 1/2" 752" 752 1/2" 753" 753 1/2" 754" 754 1/2" 755" 755 1/2" 756" 756 1/2" 757" 757 1/2" 758" 758 1/2" 759" 759 1/2" 760" 760 1/2" 761" 761 1/2" 762" 762 1/2" 763" 763 1/2" 764" 764 1/2" 765" 765 1/2" 766" 766 1/2" 767" 767 1/2" 768" 768 1/2" 769" 769 1/2" 770" 770 1/2" 771" 771 1/2" 772" 772 1/2" 773" 773 1/2" 774" 774 1/2" 775" 775 1/2" 776" 776 1/2" 777" 777 1/2" 778" 778 1/2" 779" 779 1/2" 780" 780 1/2" 781" 781 1/2" 782" 782 1/2" 783" 783 1/2" 784" 784 1/2" 785" 785 1/2" 786" 786 1/2" 787" 787 1/2" 788" 788 1/2" 789" 789 1/2" 790" 790 1/2" 791" 791 1/2" 792" 792 1/2" 793" 793 1/2" 794" 794 1/2" 795" 795 1/2" 796" 796 1/2" 797" 797 1/2" 798" 798 1/2" 799" 799 1/2" 800" 800 1/2" 801" 801 1/2" 802" 802 1/2" 803" 803 1/2" 804" 804 1/2" 805" 805