**Date**

2023/10/31 13:21:58

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**1. File Report**

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| **Table 1.**  File Information for CFX 1 |
| |  |  | | --- | --- | | **Case** | CFX 1 | | **File Path** | C:\Users\matehallgato\Desktop\gyokerhutes\_d16\_vizszintes\_20231030\gyokerhutes\_d16\_vizszintes\_20231027\_files\dp0\CFX-1\CFX\Fluid Flow CFX\_030.res | | **File Date** | 31 okt�ber 2023 | | **File Time** | 01:20:02 du. | | **File Type** | CFX5 | | **File Version** | 17.2 | |

**2. Mesh Report**

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| **Table 2.**  Mesh Information for CFX 1 |
| |  |  |  | | --- | --- | --- | | **Domain** | **Nodes** | **Elements** | | Default Domain | 4358 | 8623 | | agyas\_1 | 12900 | 9300 | | agyas\_2 | 12540 | 9180 | | All Domains | 29798 | 27103 | |

**3. Physics Report**

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| **Table 3.**  Domain Physics for CFX 1 |
| |  |  | | --- | --- | | **Domain - Default Domain** | | | Type | Fluid | | Location | B114 | | *Materials* | | | Air at 25 C | | | Fluid Definition | Material Library | | Morphology | Continuous Fluid | | *Settings* | | | Buoyancy Model | Buoyant | | Buoyancy Reference Temperature | 2.5000e+01 [C] | | Gravity X Component | 0.0000e+00 [m s^-2] | | Gravity Y Component | 0.0000e+00 [m s^-2] | | Gravity Z Component | -9.8100e+00 [m s^-2] | | Buoyancy Reference Location | Automatic | | Domain Motion | Stationary | | Reference Pressure | 1.0000e+00 [atm] | | Heat Transfer Model | Thermal Energy | | Turbulence Model | SST | | Turbulent Wall Functions | Automatic | | **Domain - agyas\_1** | | | Type | Solid | | Location | B174 | | *Settings* | | | Domain Motion | Stationary | | **Domain - agyas\_2** | | | Type | Solid | | Location | B32 | | *Settings* | | | Domain Motion | Stationary | | **Domain Interface - agyas1\_uveghaz\_kapcsolat** | | | Boundary List1 | Domain Interface 1 Side 1 | | Boundary List2 | Domain Interface 1 Side 2 | | Interface Type | Fluid Solid | | *Settings* | | | Interface Models | General Connection | | Heat Transfer | Conservative Interface Flux | | Mesh Connection | Automatic | | **Domain Interface - agyas2\_uveghaz\_kapcsolat** | | | Boundary List1 | Domain Interface 2 Side 1 | | Boundary List2 | Domain Interface 2 Side 2 | | Interface Type | Fluid Solid | | *Settings* | | | Interface Models | General Connection | | Heat Transfer | Conservative Interface Flux | | Mesh Connection | Automatic | |

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| **Table 4.**  Boundary Physics for CFX 1 |
| |  |  |  | | --- | --- | --- | | **Domain** | **Boundaries** | | | Default Domain | **Boundary - levego\_be** | | | Type | INLET | | Location | levego\_be | | *Settings* | | | Flow Direction | Zero Gradient | | Flow Regime | Subsonic | | Heat Transfer | Static Temperature | | Static Temperature | 3.0000e+01 [C] | | Mass And Momentum | Static Pressure | | Relative Pressure | 0.0000e+00 [Pa] | | Turbulence | Medium Intensity and Eddy Viscosity Ratio | | **Boundary - Domain Interface 1 Side 1** | | | Type | INTERFACE | | Location | uveghaz agyas\_1\_kontakt | | *Settings* | | | Heat Transfer | Conservative Interface Flux | | Mass And Momentum | No Slip Wall | | Wall Roughness | Smooth Wall | | **Boundary - Domain Interface 2 Side 1** | | | Type | INTERFACE | | Location | uveghaz agyas\_2\_kontakt | | *Settings* | | | Heat Transfer | Conservative Interface Flux | | Mass And Momentum | No Slip Wall | | Wall Roughness | Smooth Wall | | **Boundary - levego\_ki** | | | Type | OUTLET | | Location | levego\_ki | | *Settings* | | | Flow Regime | Subsonic | | Mass And Momentum | Static Pressure | | Relative Pressure | 0.0000e+00 [Pa] | | **Boundary - uveghaz\_passziv\_kontakt** | | | Type | SYMMETRY | | Location | uveghaz\_passziv\_kontakt | | *Settings* | | | **Boundary - levego\_kulso\_hatar** | | | Type | WALL | | Location | uveghaz levego\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 2.0000e+00 [W m^-2 K^-1] | | Outside Temperature | 3.0000e+01 [C] | | Mass And Momentum | No Slip Wall | | Wall Roughness | Smooth Wall | | **Boundary - uveghaz\_talaj\_kontakt** | | | Type | WALL | | Location | uveghaz talaj\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 2.0000e+01 [C] | | Mass And Momentum | No Slip Wall | | Wall Roughness | Smooth Wall | | **Boundary - uveghaz\_tarolo\_kontakt** | | | Type | WALL | | Location | uveghaz tarolo\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 1.8000e+01 [C] | | Mass And Momentum | No Slip Wall | | Wall Roughness | Smooth Wall | | agyas\_1 | **Boundary - Domain Interface 1 Side 2** | | | Type | INTERFACE | | Location | agyas\_1 uveghaz\_kontakt | | *Settings* | | | Heat Transfer | Conservative Interface Flux | | **Boundary - agyas1\_passziv\_kontakt** | | | Type | SYMMETRY | | Location | agyas\_1 passziv\_kontakt | | *Settings* | | | **Boundary - agyas1\_hutocsovek** | | | Type | WALL | | Location | agyas\_1 hutocsovek | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 1.2000e+03 [W m^-2 K^-1] | | Outside Temperature | 2.0000e+01 [C] | | **Boundary - agyas1\_nap\_hatas\_belso** | | | Type | WALL | | Location | agyas\_1\_nap\_belso | | *Settings* | | | Heat Transfer | Heat Flux | | Heat Flux in | 6.0000e+01 [W m^-2] | | **Boundary - agyas1\_nap\_hatas\_felso** | | | Type | WALL | | Location | agyas\_1\_nap\_felso | | *Settings* | | | Heat Transfer | Heat Flux | | Heat Flux in | 3.0000e+02 [W m^-2] | | **Boundary - agyas1\_talaj\_kontakt** | | | Type | WALL | | Location | agyas\_1 talaj\_konakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 2.0000e+01 [C] | | **Boundary - agyas1\_tarolo\_kontakt** | | | Type | WALL | | Location | agyas\_1 tarolo\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 1.8000e+01 [C] | | agyas\_2 | **Boundary - Domain Interface 2 Side 2** | | | Type | INTERFACE | | Location | agyas\_2 uveghaz\_kontakt | | *Settings* | | | Heat Transfer | Conservative Interface Flux | | **Boundary - agyas2\_passziv\_kontakt** | | | Type | SYMMETRY | | Location | agyas\_2 passziv\_kontakt | | *Settings* | | | **Boundary - agyas2\_hutocsovek** | | | Type | WALL | | Location | agyas\_2 hutocsovek | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 1.2000e+03 [W m^-2 K^-1] | | Outside Temperature | 2.0000e+01 [C] | | **Boundary - agyas2\_nap\_hatas\_belso** | | | Type | WALL | | Location | agyas\_2\_nap\_belso | | *Settings* | | | Heat Transfer | Heat Flux | | Heat Flux in | 2.0000e+02 [W m^-2] | | **Boundary - agyas2\_nap\_hatas\_felso** | | | Type | WALL | | Location | agyas\_2\_nap\_felso | | *Settings* | | | Heat Transfer | Heat Flux | | Heat Flux in | 2.5000e+02 [W m^-2] | | **Boundary - agyas2\_talaj\_kontakt** | | | Type | WALL | | Location | agyas\_2 talaj\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 2.0000e+01 [C] | | **Boundary - agyas2\_tarolo\_kontakt** | | | Type | WALL | | Location | agyas\_2 tarolo\_kontakt | | *Settings* | | | Heat Transfer | Heat Transfer Coefficient | | Heat Transfer Coefficient | 5.0000e+02 [W m^-2 K^-1] | | Outside Temperature | 1.8000e+01 [C] | |

**4. User Data**

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| **Figure 1.** |
| C://Users/matehallgato/.cfx/CFX_TEMP_1224/Figure001.png |

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| **Figure 2.** |
| C://Users/matehallgato/.cfx/CFX_TEMP_1224/Figure002.png |

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| **Figure 3.** |
| C://Users/matehallgato/.cfx/CFX_TEMP_1224/Figure003.png |

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| **Figure 4.** |
| C://Users/matehallgato/.cfx/CFX_TEMP_1224/Figure004.png |

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| **Figure 5.** |
| C://Users/matehallgato/.cfx/CFX_TEMP_1224/Figure005.png |